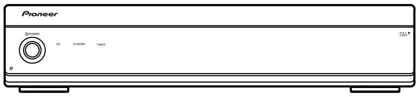
Pioneer sound.vision.soul

Service Manual


PDP-R05E

ORDER NO.
ARP3225

MEDIA RECEIVER

PDP-R05E
PDP-R05XE
PDP-R05FE

THIS MANUAL IS APPLICABLE TO THE FOLLOWINGMODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
PDP-R05E	WYVI	AC220-240V	
PDP-R05E	WYVIXK	AC220-240V	
PDP-R05XE	WYVIXK	AC220-240V	
PDP-R05FE	WYVI	AC220-240V	
PDP-R05FE	WYVIXK	AC220-240V	

Please connect it to the PLASMA DISPLAY PDP-505PE or PDP-435PE for adjustment and operation inspection.

For details, refer to "Important Check Points for Good Servicing".

Confirm it

Serial No.
○○**WYVI** : □□**SS**######△△
○○**WYVIXK** : □□**UK**######△△

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
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T-ZZK NOV. 2004 printed in Japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

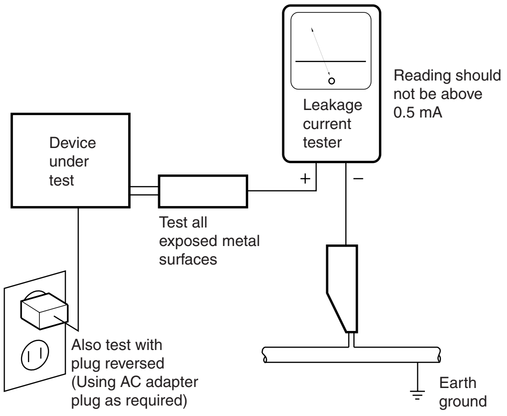
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Device under test
Leakage current tester
Reading should not be above 0.5 mA
+
−
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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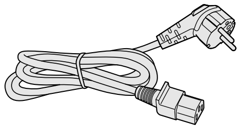
1. SPECIFICATIONS

Item			Media Receiver, Model:PDP-R05XE	Media Receiver, Model:PDP-R05E
Colour System		Analogue	PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	
		Digital	PAL/SECAM	Not Applicable
TV Function (Analogue)	Receiving System		B/G,D/K,I,L/L ’	
	Tuner	VHF/UHF	E2 –E69ch,F2 –F10ch,I21 –I69ch,IR A –IR Jch	
		CATV	Hyper-band,S1 –S41ch	
	Auto Channel Preset		99 ch,Auto Preset,Auto Label,Auto Sort	
	STEREO		NICAM/A2	
TV Function (Digital)	Receiving System		DVB-T (2K/8K COFDM)	
	Tuner	VHF/UHF	VHF Band III (170 to 230 MHz)and UHF Band IV,V (470 to 862 MHz)	Not Applicable
	Auto Channel Preset		999 ch,Auto Preset,Auto Label,Auto Sort	
	STEREO		MPEG layer I/II,Dolby Digital	
Terminals	Rear	INPUT 1	SCART (AV in,RGB in,TV out)	
		INPUT 2	SCART (AV in/out,S-VIDEO in,AV link *1)Component Video	
		INPUT 3	SCART (AV in/out,S-VIDEO in,RGB in,AV link *1),HDMI in	
		Antenna	75 Ω Din Type for VHF/UHF in (Analogue)	
			75 Ω Din Type for VHF/UHF in (Digital)	Not Applicable
			75 Ω Din Type for VHF/UHF out (Digital)	Not Applicable
	Front	INPUT 4	S-VIDEO,AV in	
		PC	Analogue RGB in,Audio in	
		PC CARD	PCMCIA Type II	
MONITOR OUTPUT Terminal(Rear)			S-VIDEO out,AV out	
SUB WOOFER OUTPUT Terminal (Rear)			Variable	
PHONES OUTPUT Terminal (Front)			16 –32 Ω recommended	
DIGITAL OUT Terminal			Digital audio output (Optical)	Not Applicable
COMMON INTERFACE (Rear)			CA Module	Not Applicable
Power Requirement			220 –240 V AC ,50/60 Hz,41 W (1.2 W Standby:Aerial Power Off)	220 –240 V AC ,50/60 Hz,35 W (0.4 W Standby)
Dimensions			420 (W) x 90 (H) x 295 (D)mm	
Weight			5.6 kg	4.9 kg

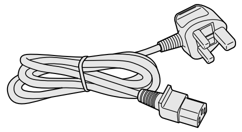
* 1 Switchable

- Design and specifications are subject to change without notice.

Power cord (2 m)



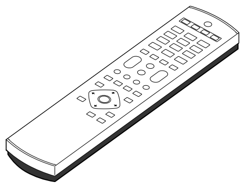
(For Europe, except U.K.and Eire)
(ADG1214)



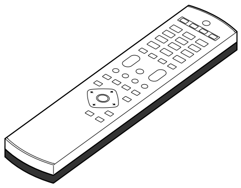
(For U.K. and Eire)

Only the power cord that is appropriate in your country or region is supplied.

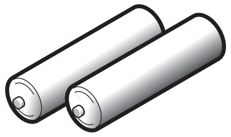
Remote control unit



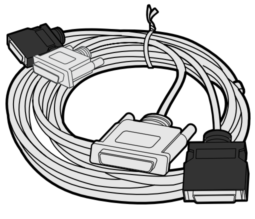
(for PDP-505XDE/435XDE)
(AXD1494)



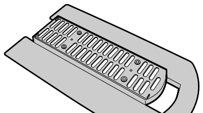
(for PDP-505HDE/435HDE)
(AXD1495)



AA size battery x 2
(Manganese battery)

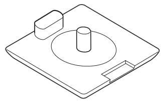


System cable (3 m)
(ADF1026)

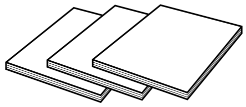


Stand
(AXG1013)

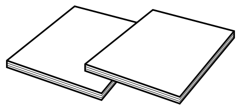
Screw x 4 (for stand)
(PMB40P120FTB)



Screw hole cap x 4
(AMR3363)



Three operating instructions
(for PDP-505XDE/435XDE)



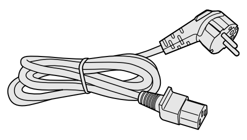
Two operating instructions
(for PDP-505HDE/435HDE)

Item			Media Receiver, Model:PDP-R05FE
Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
TV Function	Receiving System		B/G,D/K,I,L/L’
	Tuner	VHF/UHF	E2 –E69ch,F2 –F10ch,I21 –I69ch,IR A –IR Jch
		CATV	Hyper-band,S1 –S41ch
	Auto Channel Preset		99 ch,Auto Preset,Auto Label,Auto Sort
	STEREO		NICAM/A2
Terminals	Rear	INPUT 1	SCART (AV in,RGB in,TV out)
		INPUT 2	SCART (AV in/out,S-VIDEO in,AV link *1)Component Video
		INPUT 3	SCART (AV in/out,S-VIDEO in,RGB in,AV link *1),HDMI in
		Antenna	75 Ω Din Type for VHF/UHF in
	Front	INPUT 4	S-VIDEO,AV in
MONITOR OUTPUT Terminal (Rear)			S-VIDEO out,AV out
Power Requirement			220 –240 V AC ,50/60 Hz,27 W (0.4 W Standby)
Dimensions			420 (W) x 90 (H) x 295 (D)mm
Weight			4.8 kg

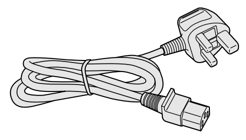
*1 Switchable

- Design and specifications are subject to change without notice.

Power cord (2 m)

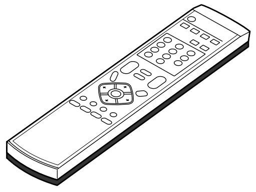


(For Europe, except U.K. and Eire)
(ADG1214)

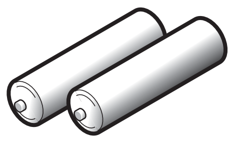


(For U.K. and Eire)

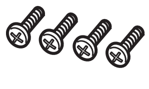
Only the power cord that is appropriate in your country or region is supplied.



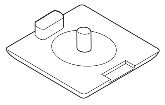
Remote control unit
(AXD1491)



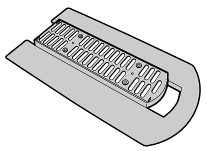
AA size battery x 2
(Manganese battery)



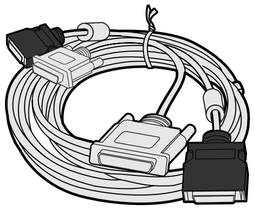
Screw x 4(for stand)
(PMB40P120FTB)



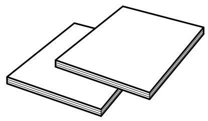
Screw hole cap x 4
(AMR3386)



Stand
(AXG1009)



System cable (3 m)
(ADF1026)

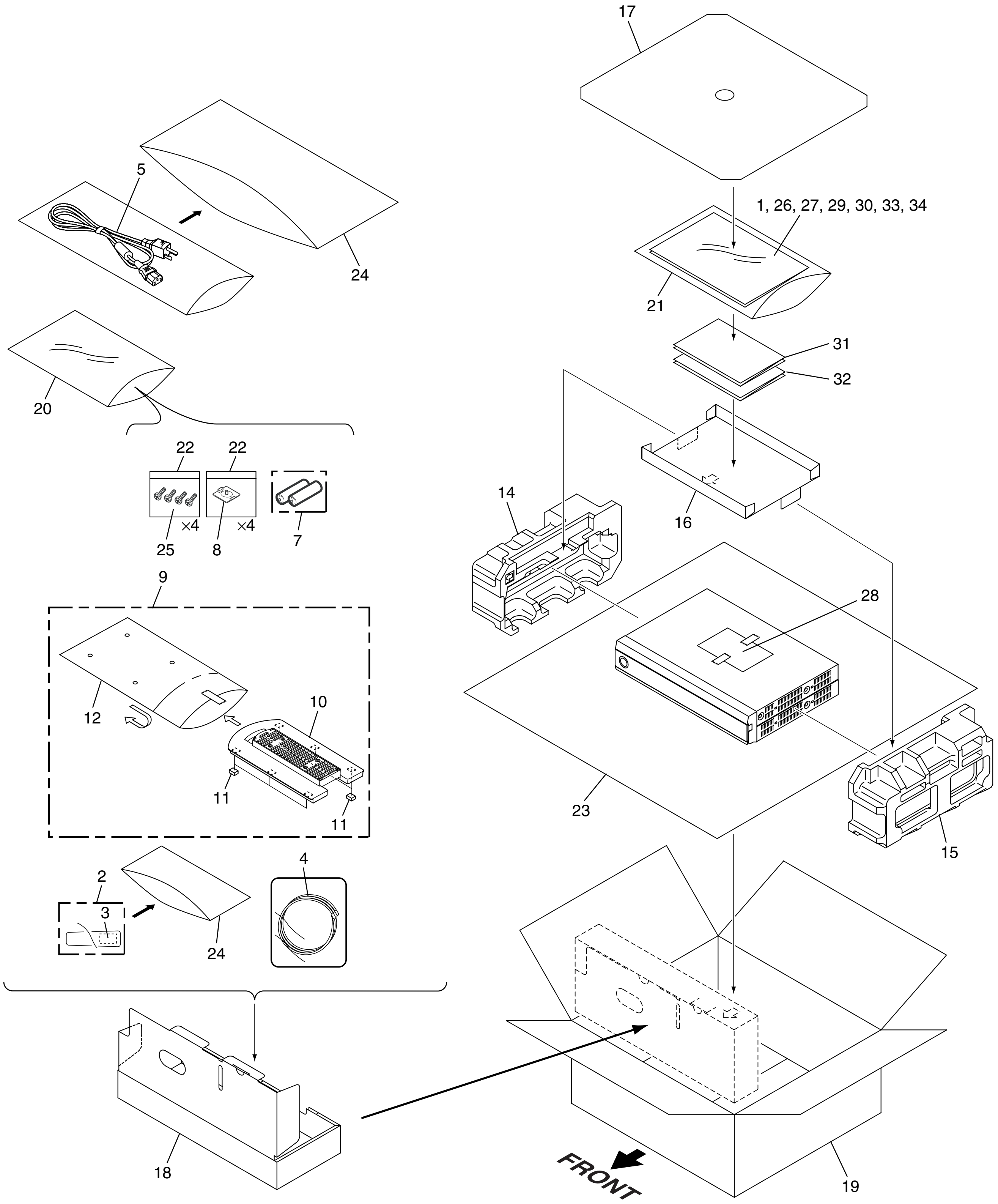


Two operating instructions

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

2.1 PACKING SECTION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PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Operating Instructions	See Contrast table (2)
	2	Remote Control Unit	See Contrast table (2)
	3	Battery Cover	See Contrast table (2)
	4	System Cable (3m)	ADF1026
⚠	5	Power Cord	ADG1214
	6	• • • • • •	
NSP	7	Dry Cell Battery (R6/AA)	VEM1031
	8	Screw Hole Cap	See Contrast table (2)
	9	Stand Assy	See Contrast table (2)
NSP	10	Stand	See Contrast table (2)
NSP	11	Stand Cushion	AEB1390
	12	Laminated Sheet Bag	AHG1334
	13	• • • • • •	
	14	Pad L	See Contrast table (2)
	15	Pad R	See Contrast table (2)
	16	IM Pad	See Contrast table (2)
	17	Top Pad	See Contrast table (2)
	18	Accessory Box	See Contrast table (2)

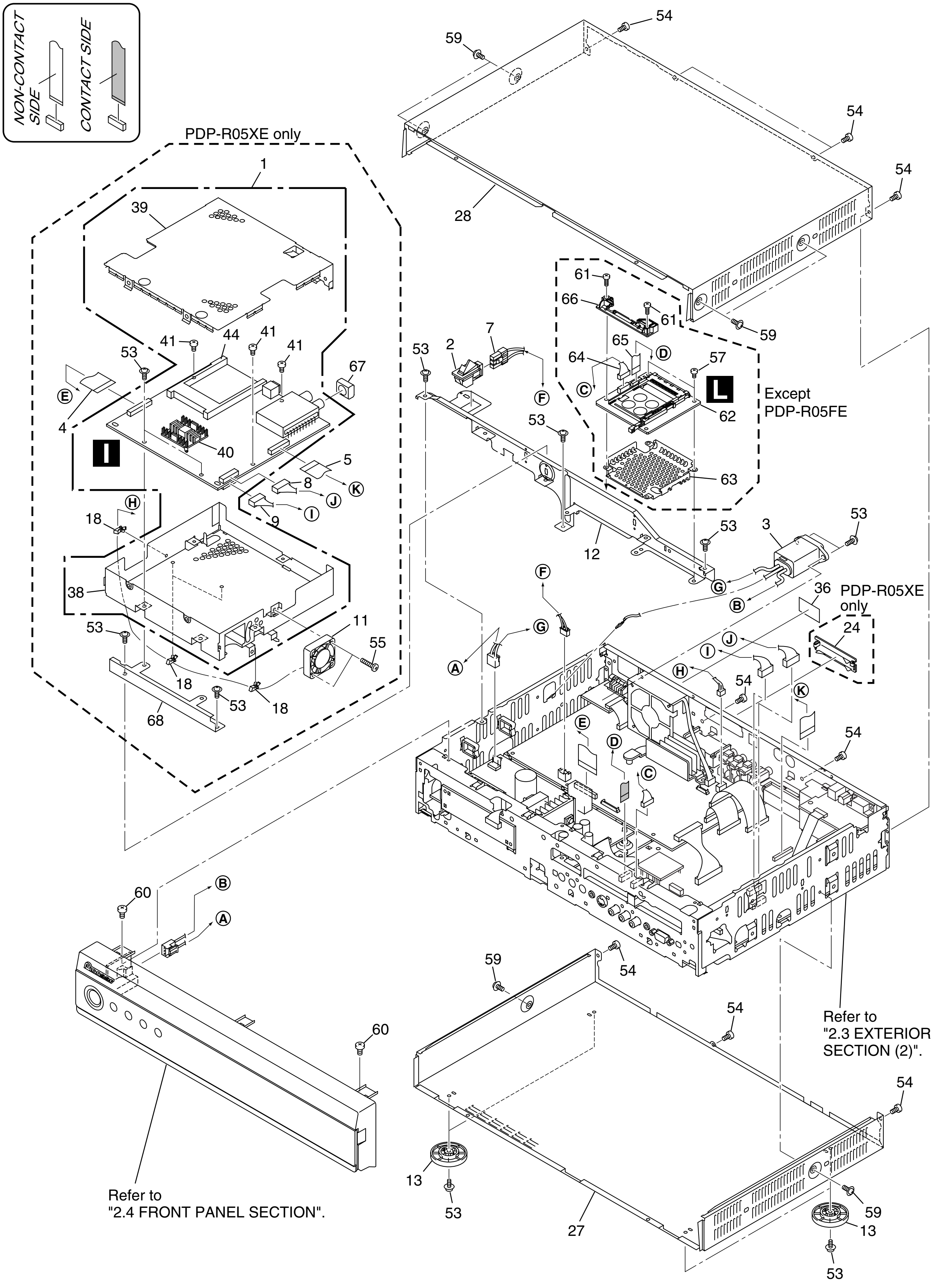
Mark	No.	Description	Part No.
	19	Carton	See Contrast table (2)
NSP	20	Literature Bag	AHG1303
	21	Vinyl Bag	AHG1340
	22	Vinyl Bag	AHG1337
	23	Laminated Sheet	AHG1350
	24	Air Capsule Bag	AHG1351
	25	Screw	PMB40P120FTB
	26	Operating Instructions	See Contrast table (2)
	27	Caution Card	ARM1223
	28	Caution Card	ARM1234
	29	Operating Instructions	See Contrast table (2)
	30	Errata	See Contrast table (2)
	31	User Card A	See Contrast table (2)
	32	User Card B	See Contrast table (2)
	33	Caution Manual	See Contrast table (2)
NSP	34	Block Diagram	See Contrast table (2)

(2) CONTRAST TABLE

PDP-R05E/WYVI, /WYVIXK, PDP-R05XE/WYVIXK, PDP-R05FE/WYVI and / WYVIXK are constructed the same except for the following:

Mark	No.	Description	PDP-R05E/ WYVI	PDP-R05E/ WYVIXK	PDP-R05XE/ WYVIXK	PDP-R05FE/ WYVI	PDP-R05FE/ WYVIXK
	1	Operating Instructions (English/French/German)	ARE1391	ARE1380	ARE1380	ARE1392	ARE1383
	2	Remote Control Unit	AXD1495	AXD1495	AXD1494	AXD1491	AXD1491
	3	Battery Cover	AZN7919	AZN7919	AZN7919	AZA7424	AZA7424
	8	Screw Hole Cap	AMR3363	AMR3363	AMR3363	Not used	Not used
	8	Screw Hole Cap UE	Not used	Not used	Not used	AMR3386	AMR3386
	9	Stand Assy	AXG1013	AXG1013	AXG1013	Not used	Not used
	9	Stand Assy UE	Not used	Not used	Not used	AXG1009	AXG1009
NSP	10	Stand	AMR3352	AMR3352	AMR3352	Not used	Not used
NSP	10	Stand UE	Not used	Not used	Not used	AMR3382	AMR3382
	14	Pad L	AHA2370	AHA2396	AHA2396	AHA2370	AHA2396
	15	Pad R	AHA2371	AHA2397	AHA2397	AHA2371	AHA2397
	16	IM Pad	AHB1253	AHB1259	AHB1259	AHB1253	AHB1259
	17	Top Pad	AHB1256	AHB1260	AHB1260	AHB1256	AHB1260
	18	Accessory Box	AHC1053	AHC1056	AHC1056	AHC1053	AHC1056
	19	Carton E	AHD3247	AHD3293	Not used	Not used	Not used
	19	Carton XE	Not used	Not used	AHD3246	Not used	Not used
	19	Carton FE	Not used	Not used	Not used	AHD3248	AHD3283
	26	Operating Instructions (Italian/Dutch/Swedish/Spanish)	ARC1541	ARC1533	ARC1533	Not used	Not used
	26	Operating Instructions (Italian/Dutch/Spanish)	Not used	Not used	Not used	ARC1542	ARC1535
	29	Operating Instructions (English/French/German) (Italian/Dutch/Swedish/Spanish)	Not used	Not used	ARE1390	Not used	Not used
	30	Errata	ARX1120	ARX1121	ARX1121	ARX1120	ARX1121
	31	User Card A	Not used	ARY1150	ARY1150	Not used	ARY1150
	32	User Card B	Not used	ARY1151	ARY1151	Not used	ARY1151
	33	Caution Manual	ARM1263	ARM1264	ARM1264	ARM1263	ARM1264
NSP	34	Block Diagram	Not used	ARY1159	ARY1159	Not used	ARY1159

2.2 EXTERIOR SECTION (1)


NON-CONTACT SIDE
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PDP-R05XE only

Except PDP-R05FE

PDP-R05XE only

Refer to "2.3 EXTERIOR SECTION (2)".

Refer to "2.4 FRONT PANEL SECTION".

EXTERIOR SECTION (1) PARTS LIST

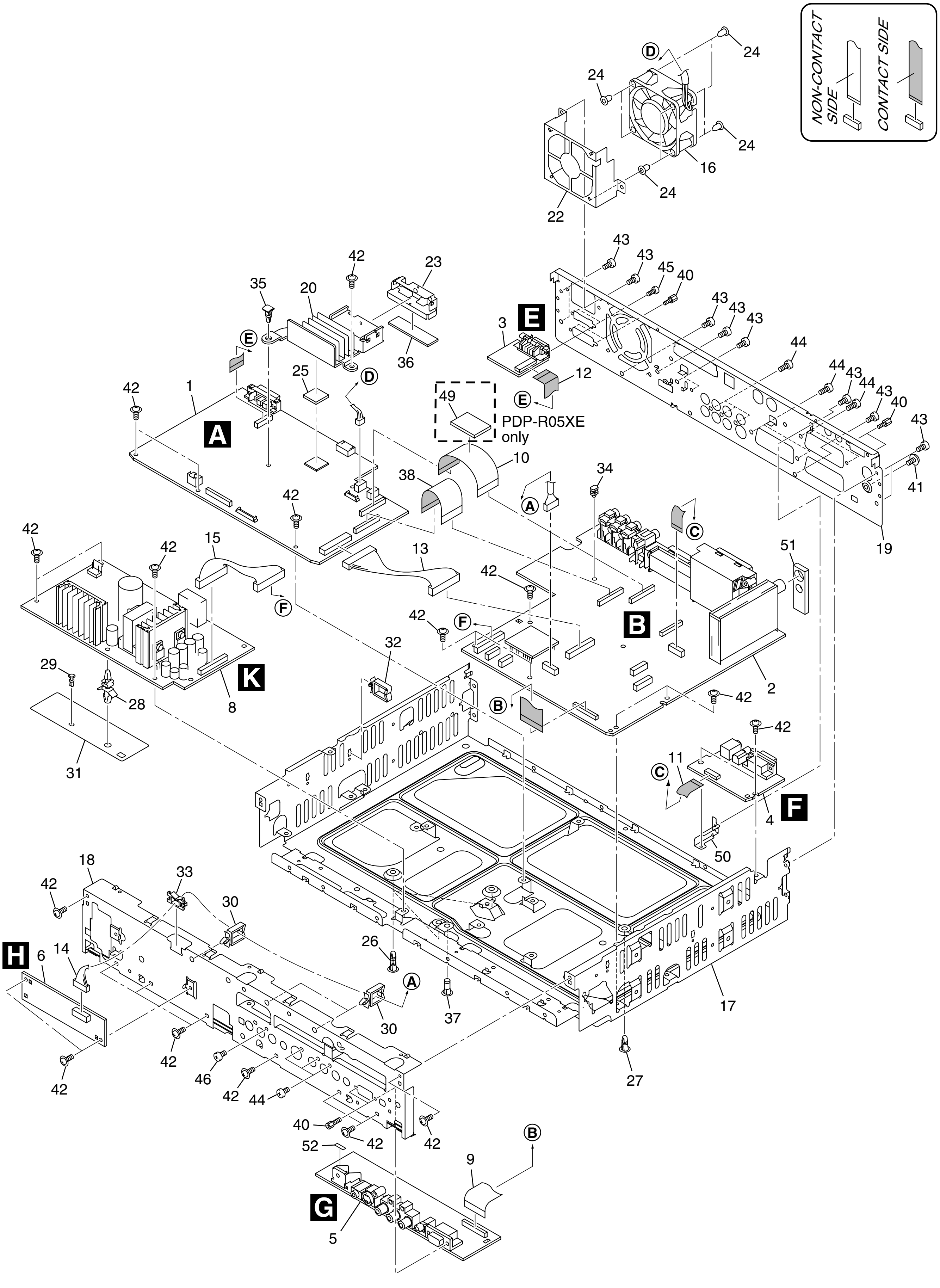
Mark	No.	Description	Part No.
	1	TUNER BOARD Assy	See Contrast table (2)
⚠	2	Power Switch (TRAP)(S1)	ASG1089
⚠	3	AC Inlet (CN1)	AKP1257
	4	Flexible Cable (J209)	See Contrast table (2)
	5	Flexible Cable (J210)	See Contrast table (2)
	6	•••••	
	7	3P Housing Wire (J107)	ADX2836
	8	9P Housing Wire (J113)	See Contrast table (2)
	9	8P Housing Wire (J114)	See Contrast table (2)
	10	•••••	
⚠	11	Fan Motor 42 x 10.5L	See Contrast table (2)
	12	Center Stay U	ANG2564
	13	Leg Assy	AXG1012
	14	•••••	
	15	•••••	
	16	•••••	
	17	•••••	
	18	Side Type Mini Clamp	See Contrast table (2)
	19	•••••	
	20	•••••	
	21	•••••	
	22	•••••	
	23	•••••	
	24	Rear Cover	AMR3425
	25	•••••	
	26	•••••	
	27	Metal Bonnet Bottom	See Contrast table (2)
	28	Metal Bonnet Top	See Contrast table (2)
	29	Serial Sheet	AAX2609
	30	•••••	
	31	•••••	
	32	•••••	
	33	•••••	
	34	•••••	
	35	•••••	
NSP	36	Serial Label	ARW1100
	37	•••••	
NSP	38	Bottom Can	See Contrast table (2)
	39	Top Can	See Contrast table (2)
	40	Heat Sink	See Contrast table (2)
	41	Screw	See Contrast table (2)
	42	Screw	See Contrast table (2)
	43	•••••	
	44	PCMCIA Ejector	See Contrast table (2)
	45	•••••	
	46	•••••	
	47	•••••	
	48	•••••	
	49	•••••	
	50	•••••	
	51	•••••	
	52	•••••	
	53	Screw	ABZ30P080FTC
	54	Screw	BBZ30P060FTB
	55	Screw	See Contrast table (2)
	56	•••••	
	57	Screw	ABZ30P080FTC
	58	•••••	
	59	Screw	See Contrast table (2)
	60	Screw	ABZ30P060FTB
	61	Screw	See Contrast table (2)
	62	PC Card Module	See Contrast table (2)
	63	PC Shield	See Contrast table (2)
	64	6P Housing Wire (J111)	See Contrast table (2)
	65	Flexible Cable (J208)	See Contrast table (2)
	66	PC Guide	See Contrast table (2)
	67	Gasket XE	See Contrast table (2)
	68	Tuner Adaptor	See Contrast table (2)

(2) CONTRAST TABLE

PDP-R05E/WYVI, /WYVIXK, PDP-R05XE/WYVIXK, PDP-R05FE/WYVI and / WYVIXK are constructed the same except for the following:

Mark	No.	Description	PDP-R05E/ WYVI	PDP-R05E/ WYVIXK	PDP-R05XE/ WYVIXK	PDP-R05FE/ WYVI	PDP-R05FE/ WYVIXK
NSP	1	TUNER BOARD Assy	Not used	Not used	AWE1301	Not used	Not used
	4	Flexible Cable (J209)	Not used	Not used	ADD1280	Not used	Not used
	5	Flexible Cable (J210)	Not used	Not used	ADD1267	Not used	Not used
	8	9P Housing Wire (J113)	Not used	Not used	ADX3017	Not used	Not used
	9	8P Housing Wire (J114)	Not used	Not used	ADX3018	Not used	Not used
⚠	11	Fan Motor 42 x 10.5L)	Not used	Not used	AXM1049	Not used	Not used
	18	Side Type Mini Clamp	Not used	Not used	AEC2003	Not used	Not used
	24	Rear Cover	Not used	Not used	AMR3425	Not used	Not used
	27	Metal Bonnet Bottom	ANE1631	ANE1631	ANE1631	Not used	Not used
	27	Metal Bonnet Bottom (UE)	Not used	Not used	Not used	ANE1634	ANE1634
	28	Bonnet Top	ANE1632	ANE1632	ANE1632	Not used	Not used
	28	Bonnet Top (FE)	Not used	Not used	Not used	ANE1637	ANE1637
	38	Bottom Can	Not used	Not used	XNA1004	Not used	Not used
	39	Top Can	Not used	Not used	XNG1001	Not used	Not used
	40	Heat Sink	Not used	Not used	XNH1004	Not used	Not used
	41	Screw	Not used	Not used	BBZ30P060FTB	Not used	Not used
	42	Screw	Not used	Not used	PMZ20P100FNI	Not used	Not used
	44	PCMCIA Ejector	Not used	Not used	ANG2673	Not used	Not used
	55	Screw	Not used	Not used	BBZ30P140FTC	Not used	Not used
	59	Screw	ABZ30P080FTC	ABZ30P080FTC	ABZ30P080FTC	ABZ30P060FTB	ABZ30P060FTB
	61	Screw	ABZ30P180FTC	ABZ30P160FTC	ABZ30P160FTC	Not used	Not used
	62	PC Card Module	AXY1073	AXY1073	AXY1073	Not used	Not used
	63	PC Shield	ANG2578	ANG2578	ANG2578	Not used	Not used
	64	6P Housing Wire (J111)	ADX3016	ADX3016	ADX3016	Not used	Not used
	65	Flexible Cable (J208)	ADD1226	ADD1226	ADD1226	Not used	Not used
	66	PC Guide	AMR3393	AMR3393	AMR3393	Not used	Not used
	67	Gasket XE	Not used	Not used	ANK1756	Not used	Not used
	68	Tuner Adaptor	Not used	Not used	ANG2672	Not used	Not used

2.3 EXTERIOR SECTION (2)



NON-CONTACT SIDE
CONTACT SIDE
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PDP-R05XE only
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EXTERIOR SECTION (2) PARTS LIST

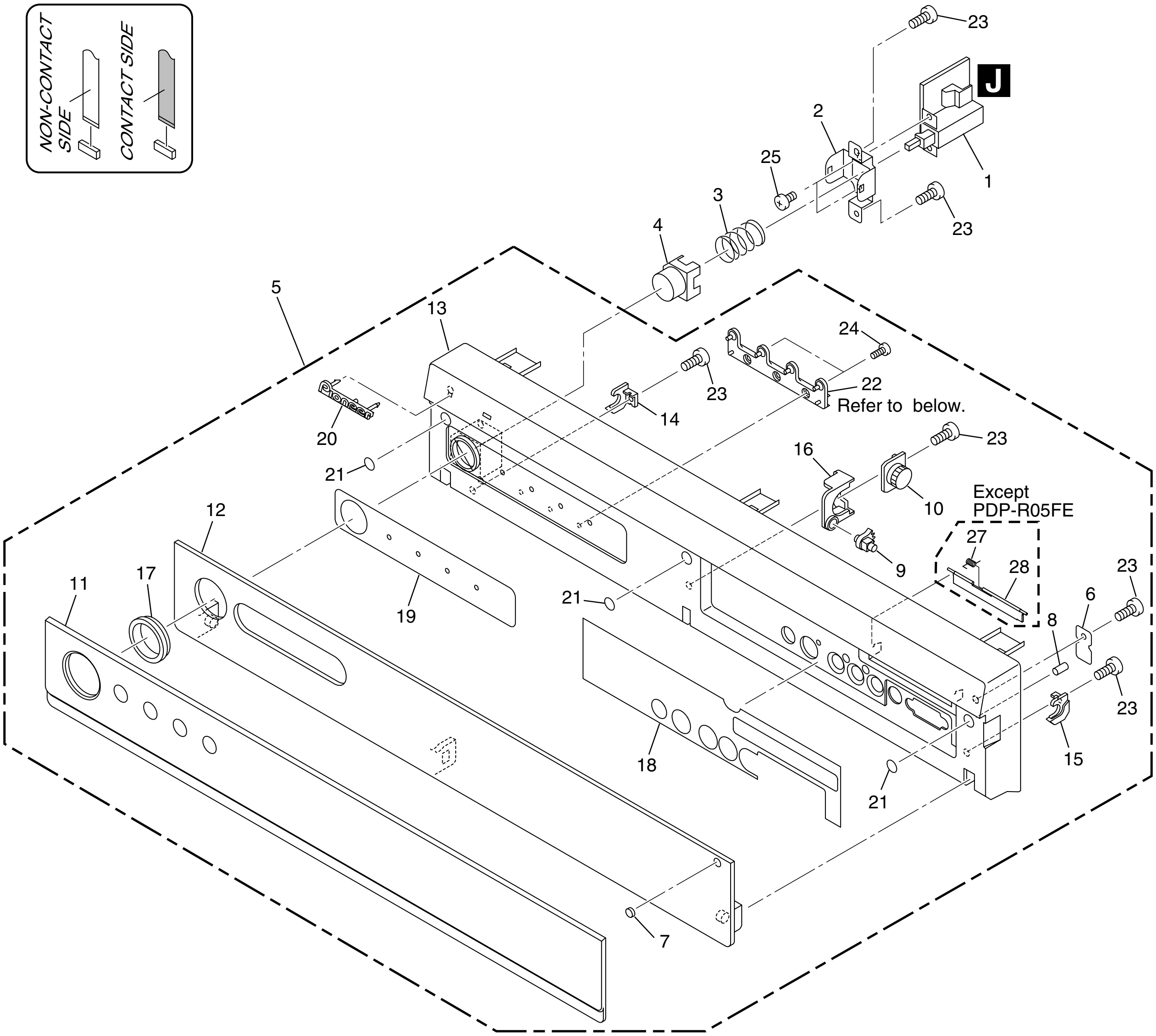
Mark	No.	Description	Part No.
	1	MR MAIN BOARD Assy	See Contrast table (2)
	2	AV BOARD Assy	See Contrast table (2)
	3	MDR Assy	AWZ6948
	4	SR Assy	See Contrast table (2)
	5	FRONT Assy	See Contrast table (2)
	6	LED Assy	See Contrast table (2)
	7	• • • • •	
⚠	8	POWER SUPPLY Unit	AXY1091
	9	Flexible Cable (J201)	ADD1209
	10	Flexible Cable (J203)	ADD1210
	11	Flexible Cable (J206)	ADD1213
	12	Flexible Cable (J207)	ADD1214
	13	15P Housing Wire (J105)	ADX2833
	14	7P Housing Wire (J109)	ADX3015
	15	16P Housing Wire (J112)	ADX2917
⚠	16	Fan Motor 60 x 25L	AXM1045
	17	Base Chassis	ANA1811
	18	Front Chassis	See Contrast table (2)
	19	Terminal Panel	See Contrast table (2)
	20	Heatsink HDMI	ANH1618
	21	• • • • •	
	22	Fan Holder	ANG2568
	23	HDMI Shield	ANG2646
	24	Insulation Rubber	AEB1377
	25	Silicone Sheet HDMI	AEB1379
	26	PCB Holder	AEC1097
	27	Spacer	AEC1256
	28	Locking Card Spacer	AEC1429
	29	Nyron Rivet	AEC1671
	30	Wire Saddle	AEC1745
	31	Barrier A	AEC2017
	32	Re-use Wire Saddle	AEC1945
	33	Edge Saddle	AEC1946
	34	Mini Card Spacer	AEC1959
	35	Circuit Board Spacer	AEC1964
	36	Gasket F	ANK1722
	37	Card Spacer A	BEC1120
	38	Flexible Cable (J202)	ADD1209
	39	• • • • •	
	40	Hexagon Head Screw	BBA1051
	41	Screw	ABZ30P060FTB
	42	Screw	ABZ30P080FTC
	43	Screw	BBZ30P060FTB
	44	Screw	BPZ30P100FTB
	45	Screw	PMZ26P060FTB
	46	Screw	BMZ30P060FTC
	47	• • • • •	
	48	• • • • •	
	49	FFC Cushion (XE)	See Contrast table (2)
	50	SR Holder E	ANG2581
	51	Gasket	ANK1730
	52	Front Ground Spacer	AEC2016

(2) CONTRAST TABLE

PDP-R05E/WYVI, /WYVIXK, PDP-R05XE/WYVIXK, PDP-R05FE/WYVI and / WYVIXK are constructed the same except for the following:

Mark	No.	Description	PDP-R05E/ WYVI	PDP-R05E/ WYVIXK	PDP-R05XE/ WYVIXK	PDP-R05FE/ WYVI	PDP-R05FE/ WYVIXK
	1	MR MAIN BOARD Assy	AWZ6944	AWZ6944	AWZ6990	AWZ6945	AWZ6945
	2	AV BOARD Assy	AWZ6946	AWZ6946	AWZ6986	AWZ6947	AWZ6947
	4	SR Assy	AWZ6949	AWZ6949	AWZ6949	AWZ6950	AWZ6950
	5	FRONT Assy	AWZ6951	AWZ6951	AWZ6951	AWZ6952	AWZ6952
	6	LED Assy	AWZ6953	AWZ6953	AWZ6953	AWZ6954	AWZ6954
	18	Front Chassis E	ANB1867	ANB1867	ANB1867	Not used	Not used
	18	Front Chassis	Not used	Not used	Not used	ANB1866	ANB1866
	19	Terminal Panel E	ANC2363	ANC2369	Not used	Not used	Not used
	19	Terminal Panel XE	Not used	Not used	ANC2362	Not used	Not used
	19	Terminal Panel FE	Not used	Not used	Not used	ANC2364	ANC2370
	49	FFC Cushion (XE)	Not used	Not used	AEB1407	Not used	Not used

2.4 FRONT PANEL SECTION


NON-CONTACT SIDE
CONTACT SIDE
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Refer to below.
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Except PDP-R05FE
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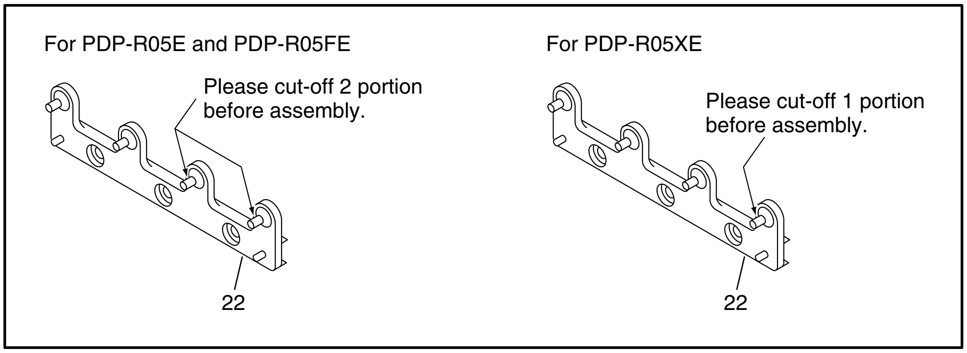

For PDP-R05E and PDP-R05FE
Please cut-off 2 portion before assembly.
22
For PDP-R05XE
Please cut-off 1 portion before assembly.
22

FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	SW Assy	AWZ6920
	2	SW Holder	ANG2670
	3	SW Spring	ABH1109
	4	Power Button	ADD4128
	5	Front Panel Assy	See Contrast table (2)
	6	Magnet Holder	ANG2671
	7	Magnet Catcher	ANG2675
	8	Magnet	AMF1004
	9	Gear	AMR3418
	10	Damper	AXA1018
	11	Panel	See Contrast table (2)
	12	Door	AAN1473
	13	Front Panel	See Contrast table (2)
	14	Door Holder L	AMR3414
	15	Door Holder R	AMR3415

Mark	No.	Description	Part No.
	16	Damper Holder	AMR3416
	17	Escutcheon Ring	ADD4130
	18	Sealing Sheet	See Contrast table (2)
	19	Sealing Sheet S	See Contrast table (2)
	20	Pioneer Badge	VAM1124
	21	Door Cushion	See Contrast table (2)
	22	LED Lens	AMR3417
	23	Screw	BPZ30P100FTB
	24	Screw	JPZ20P035FNI
	25	Screw	BMZ30P060FTC
	26	••••••	
	27	PC Spring	See Contrast table (2)
	28	PC Card Door	See Contrast table (2)

(2) CONTRAST TABLE

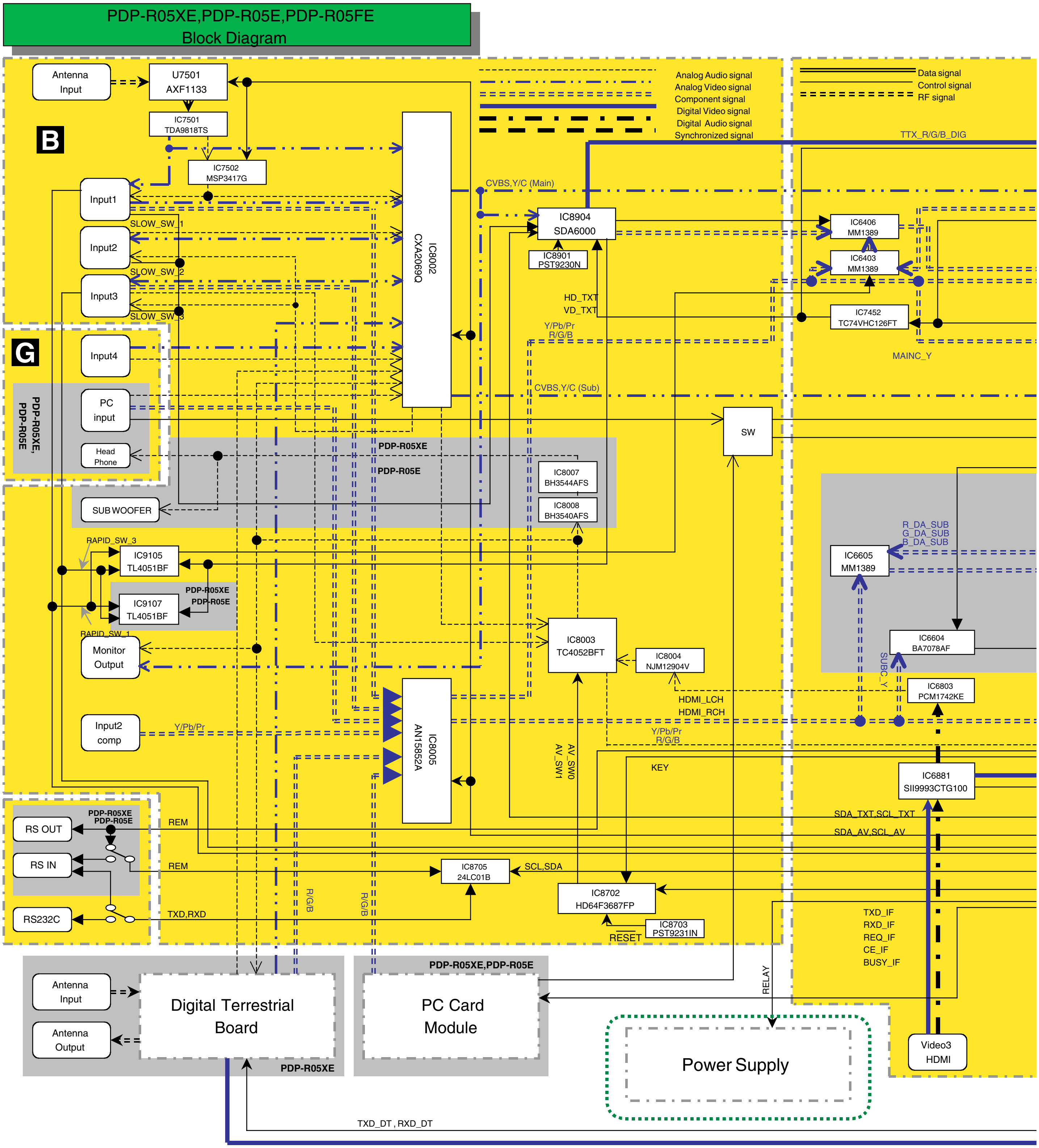
PDP-R05E/WYVI, /WYVIXK, PDP-R05XE/WYVIXK, PDP-R05FE/WYVI and / WYVIXK are constructed the same except for the following:

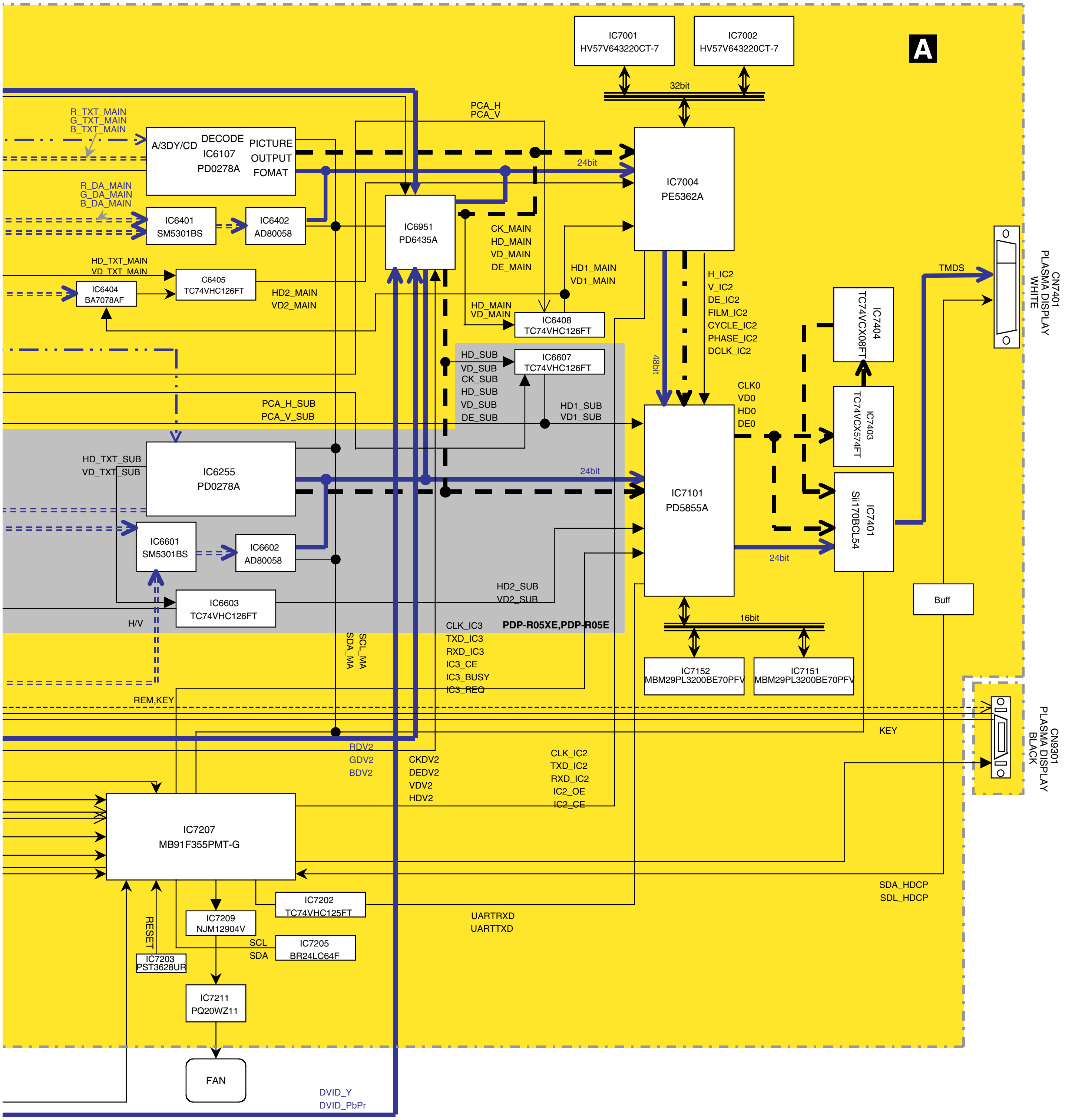
Mark	No.	Description	PDP-R05E/ WYVI	PDP-R05E/ WYVIXK	PDP-R05XE/ WYVIXK	PDP-R05FE/ WYVI	PDP-R05FE/ WYVIXK
	5	Front Panel Assy E	AXG1021	AXG1021	Not used	Not used	Not used
	5	Front Panel Assy XE	Not used	Not used	AXG1020	Not used	Not used
	5	Front Panel Assy FE	Not used	Not used	Not used	AXG1022	AXG1022
	11	Panel (E)	AAK2826	AAK2826	Not used	AAK2826	AAK2826
	11	Panel (XE)	Not used	Not used	AAK2825	Not used	Not used
	13	Front Panel (E)	AMB2829	AMB2829	Not used	Not used	Not used
	13	Front Panel (XE)	Not used	Not used	AMB2828	Not used	Not used
	13	Front Panel (FE)	Not used	Not used	Not used	AMB2830	AMB2830
	18	Sealing Sheet (XE E)	AAL2547	AAL2547	AAL2547	Not used	Not used
	18	Sealing Sheet (FE)	Not used	Not used	Not used	AAL2548	AAL2548
	19	Sealing Sheet S (GC)	AAL2555	AAL2555	Not used	AAL2555	AAL2555
	19	Sealing Sheet S (E)	Not used	Not used	AAL2554	Not used	Not used
	21	Door Cushion	AEB1391	AEB1391	AEB1391	AEB1394	AEB1394
	27	PC Spring	ABH1112	ABH1112	ABH1112	Not used	Not used
	28	PC Card Door	AMR3365	AMR3365	AMR3365	Not used	Not used

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

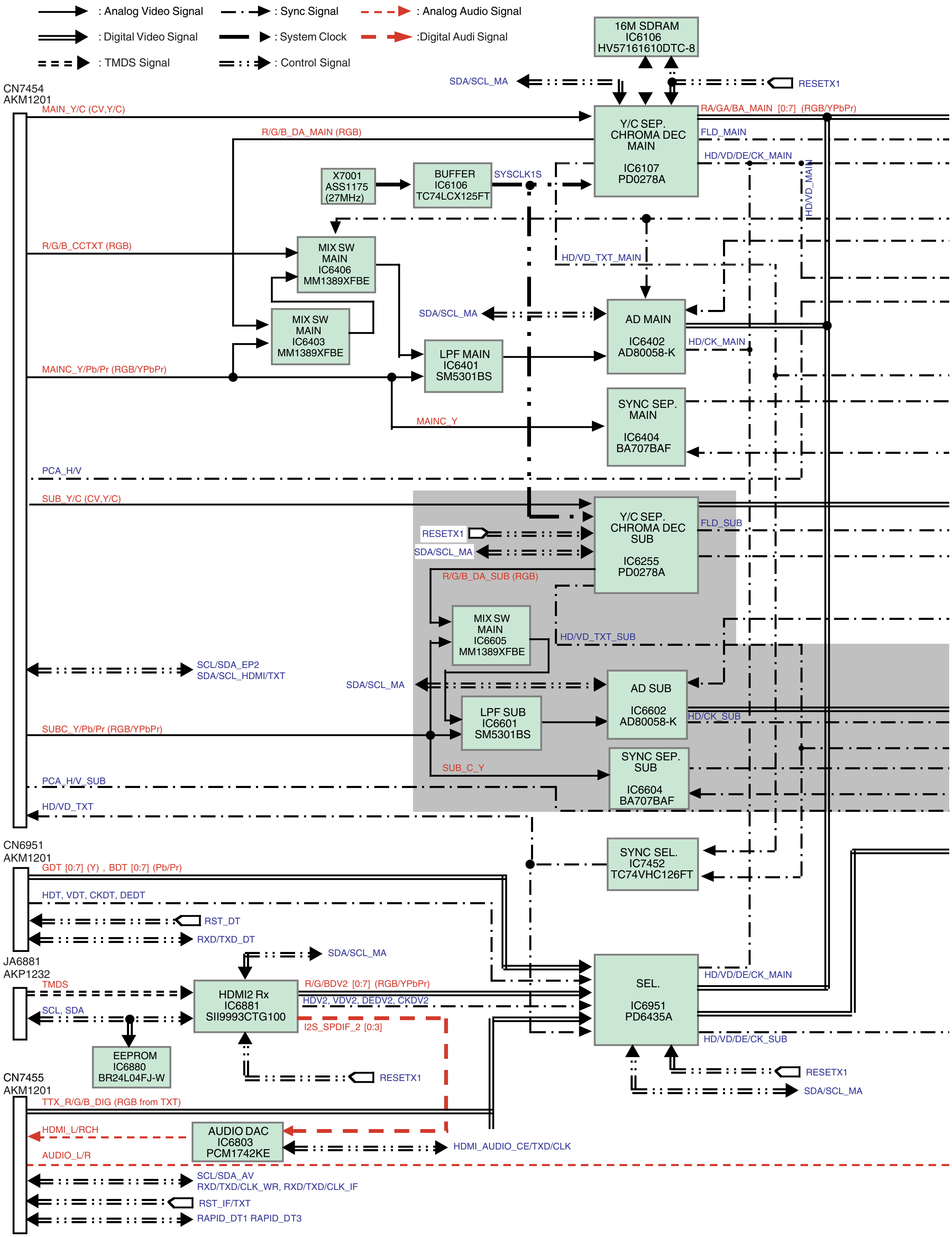
3.1 BLOCK DIAGRAM

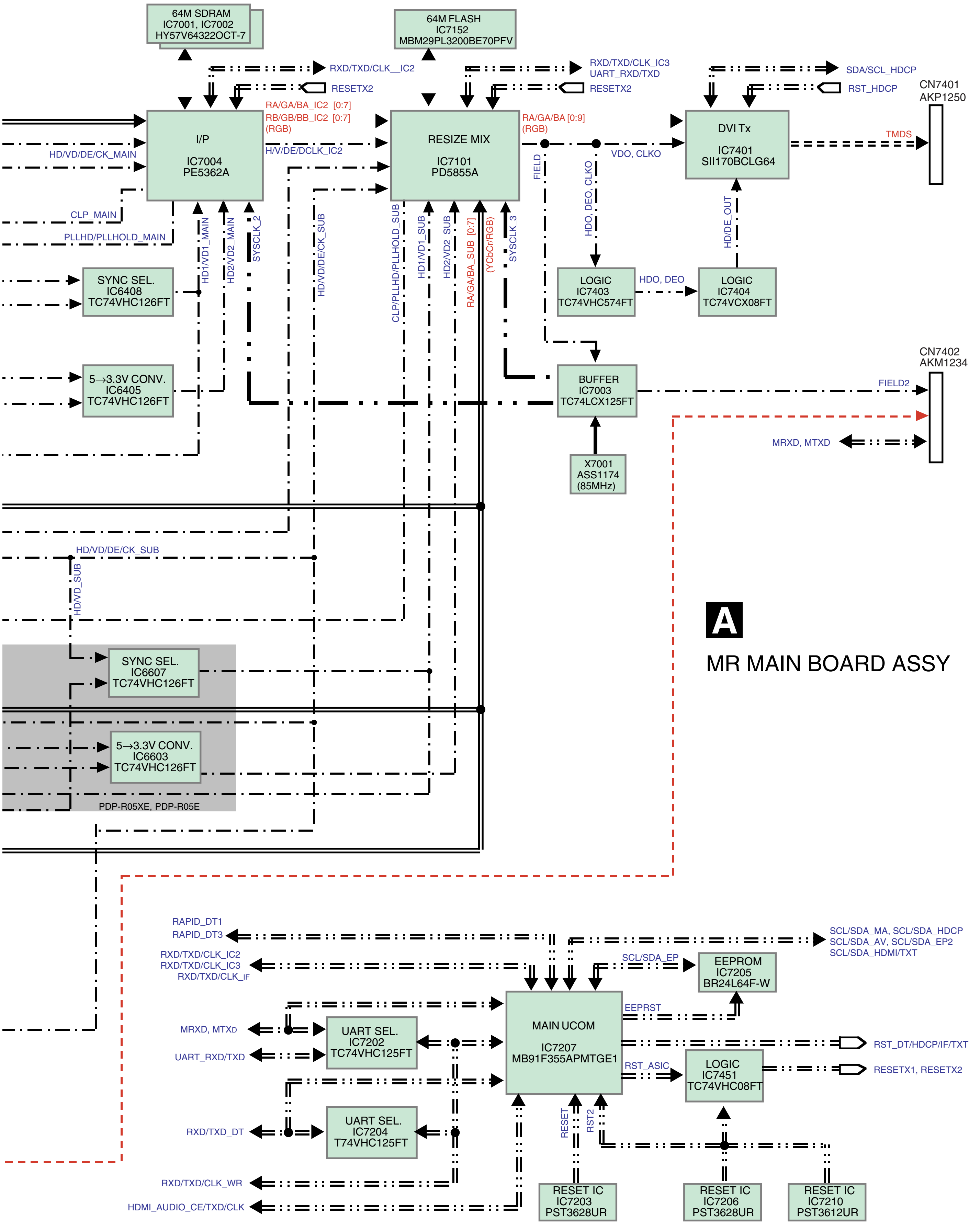
3.1.1 SIGNAL ROUTE


PDP-R05XE,PDP-R05E,PDP-R05FE
Block Diagram
B
G
Analog Audio signal
Analog Video signal
Component signal
Digital Video signal
Digital Audio signal
Synchronized signal
Data signal
Control signal
RF signal
Antenna Input
U7501 AXF1133
IC7501 TDA9818TS
IC7502 MSP3417G
IC8002 CXA2069Q
Input1
Input2
Input3
Input4
SLOW_SW_1
SLOW_SW_2
SLOW_SW_3
PC input
Head Phone
PDP-R05XE, PDP-R05E
SUB WOOFER
PDP-R05XE
PDP-R05E
IC8007 BH3544AFS
IC8008 BH3540AFS
CVBS,Y/C (Main)
CVBS,Y/C (Sub)
IC8904 SDA6000
IC8901 PST9230N
HD_TXT
VD_TXT
Y/Pb/Pr R/G/B
TTX_R/G/B_DIG
IC6406 MM1389
IC6403 MM1389
IC7452 TC74VHC126FT
MAINC_Y
SW
R_DA_SUB
G_DA_SUB
B_DA_SUB
IC6605 MM1389
IC6604 BA7078AF
SUBC_Y
IC6803 PCM1742KE
RAPID_SW_3
IC9105 TL4051BF
IC9107 TL4051BF
RAPID_SW_1
PDP-R05XE
PDP-R05E
Monitor Output
IC8003 TC4052BFT
IC8004 NJM12904V
HDMI_LCH
HDMI_RCH
Input2 comp
Y/Pb/Pr
IC8005 AN15852A
AV_SW0
AV_SW1
Y/Pb/Pr R/G/B
KEY
IC6881 SII9993CTG100
SDA_TXT,SCL_TXT
SDA_AV,SCL_AV
PDP-R05XE
PDP-R05E
RS OUT
RS IN
REM
REM
RS232C
TXD,RXD
R/G/B
R/G/B
IC8705 24LC01B
SCL,SDA
IC8702 HD64F3687FP
IC8703 PST9231IN
RESET
TXD_IF
RXD_IF
REQ_IF
CE_IF
BUSY_IF
RELAY
Antenna Input
Antenna Output
Digital Terrestrial Board
PDP-R05XE
PDP-R05XE,PDP-R05E
PC Card Module
Power Supply
Video3 HDMI
TXD_DT , RXD_DT


A
IC7001
HV57V643220CT-7
IC7002
HV57V643220CT-7
32bit
PCA_H
PCA_V
R_TXT_MAIN
G_TXT_MAIN
B_TXT_MAIN
A/3DY/CD
DECODE
IC6107
PD0278A
PICTURE
OUTPUT
FOMAT
24bit
IC7004
PE5362A
R_DA_MAIN
G_DA_MAIN
B_DA_MAIN
IC6401
SM5301BS
IC6402
AD80058
IC6951
PD6435A
CK_MAIN
HD_MAIN
VD_MAIN
DE_MAIN
HD_TXT_MAIN
VD_TXT_MAIN
C6405
TC74VHC126FT
IC6404
BA7078AF
HD2_MAIN
VD2_MAIN
HD1_MAIN
VD1_MAIN
HD_MAIN
VD_MAIN
IC6408
TC74VHC126FT
H_IC2
V_IC2
DE_IC2
FILM_IC2
CYCLE_IC2
PHASE_IC2
DCLK_IC2
48bit
TMDS
CN7401
PLASMA DISPLAY
WHITE
IC7404
TC74VCX08FT
HD_SUB
VD_SUB
CK_SUB
HD_SUB
VD_SUB
DE_SUB
IC6607
TC74VHC126FT
PCA_H_SUB
PCA_V_SUB
HD1_SUB
VD1_SUB
CLK0
VD0
HD0
DE0
IC7403
TC74VCX574FT
HD_TXT_SUB
VD_TXT_SUB
IC6255
PD0278A
24bit
IC7101
PD5855A
IC7401
Sii170BCL54
IC6601
SM5301BS
IC6602
AD80058
24bit
Buff
HD2_SUB
VD2_SUB
IC6603
TC74VHC126FT
H/V
CLK_IC3
TXD_IC3
RXD_IC3
IC3_CE
IC3_BUSY
IC3_REQ
PDP-R05XE,PDP-R05E
SCL_MA
SDA_MA
16bit
IC7152
MBM29PL3200BE70PFV
IC7151
MBM29PL3200BE70PFV
REM,KEY
KEY
CN9301
PLASMA DISPLAY
BLACK
RDV2
GDV2
BDV2
CKDV2
DEDV2
VDV2
HDV2
CLK_IC2
TXD_IC2
RXD_IC2
IC2_OE
IC2_CE
IC7207
MB91F355PMT-G
SDA_HDCP
SDL_HDCP
IC7202
TC74VHC125FT
UARTRXD
UARTTXD
RESET
IC7209
NJM12904V
SCL
SDA
IC7205
BR24LC64F
IC7203
PST3628UR
IC7211
PQ20WZ11
FAN
DVID_Y
DVID_PbPr

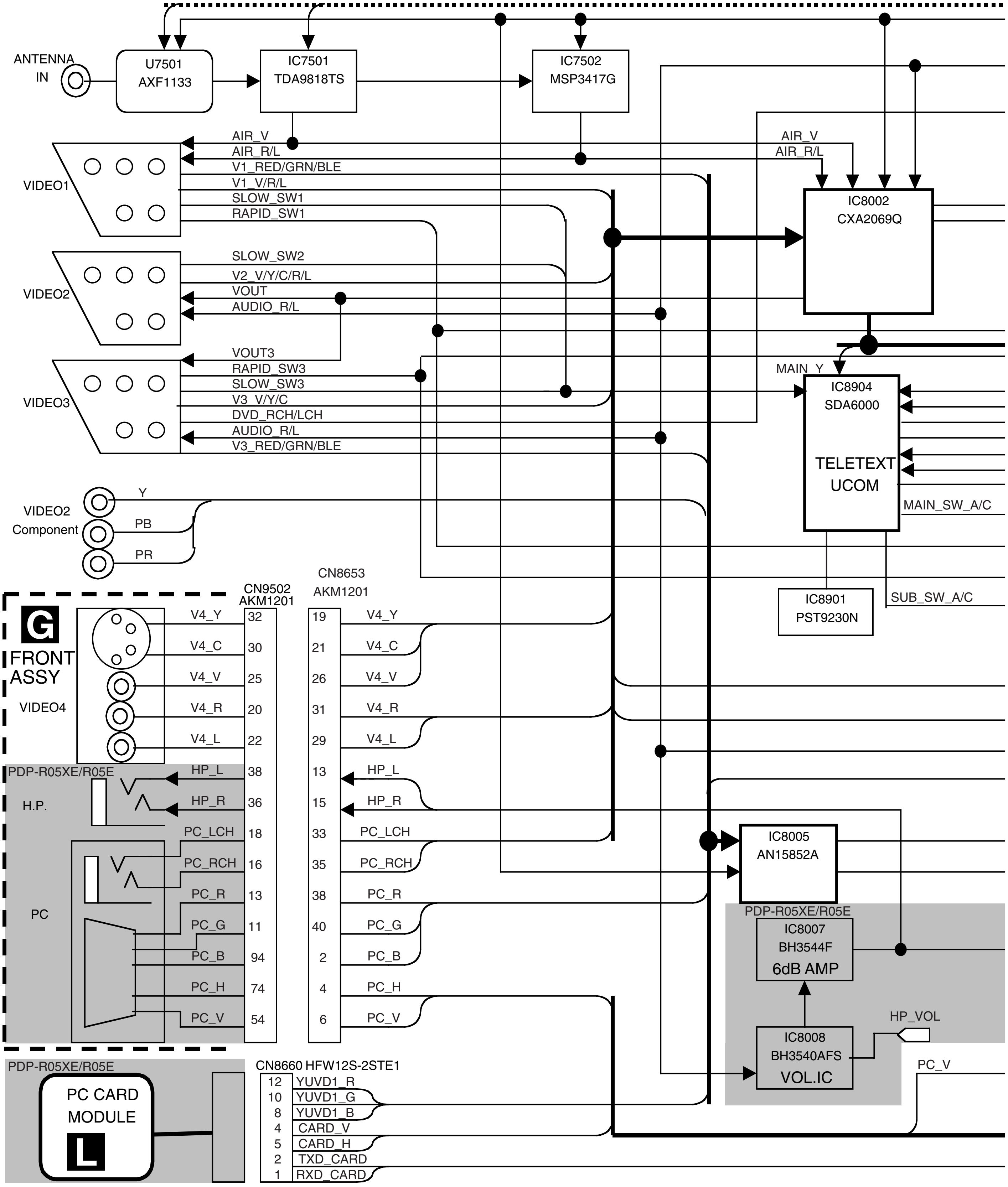
3.1.2 MR MAIN BOARD ASSY

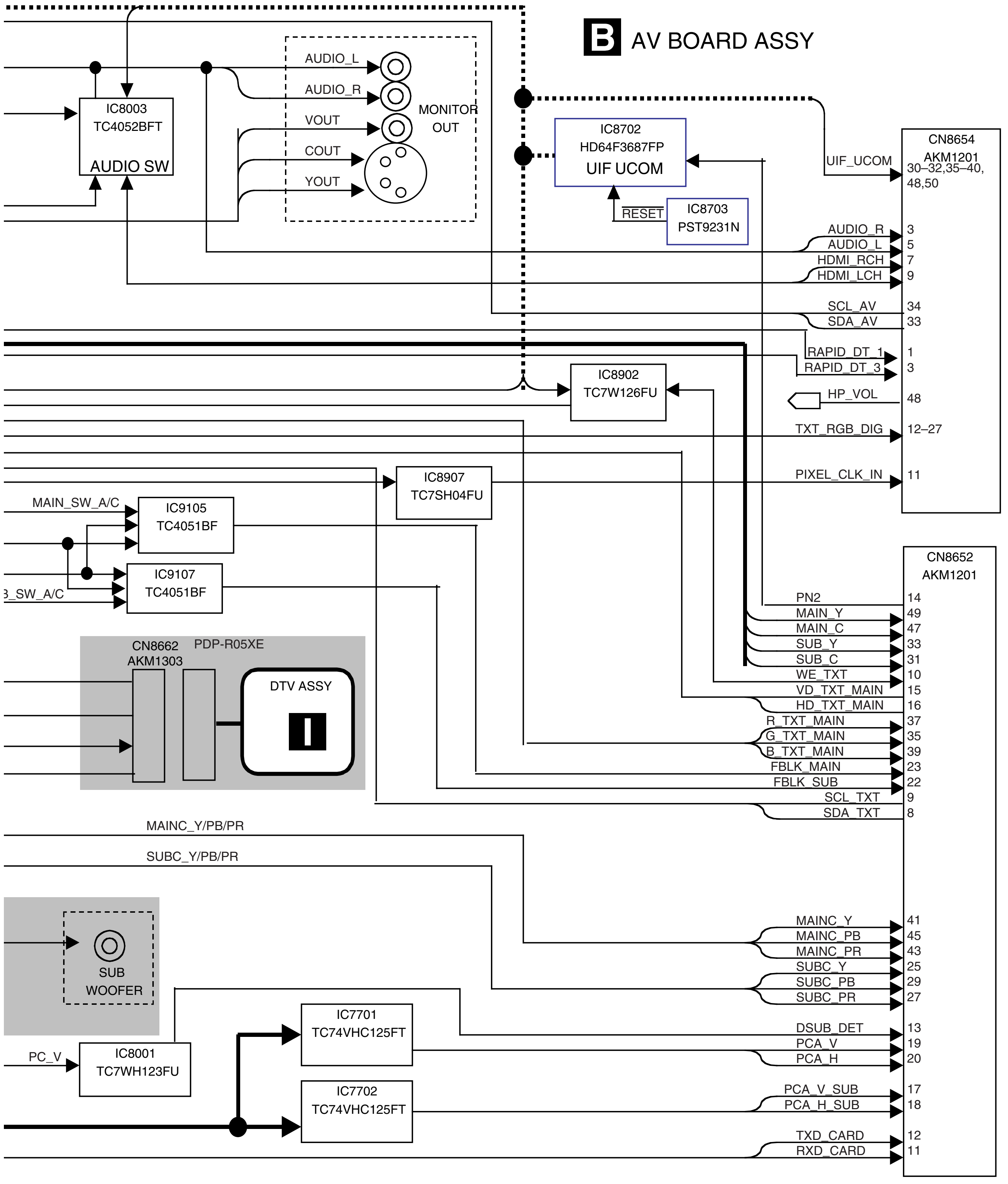

A
B
C
D
E
F
: Analog Video Signal
: Sync Signal
: Analog Audio Signal
: Digital Video Signal
: System Clock
:Digital Audi Signal
: TMDS Signal
: Control Signal
16M SDRAM
IC6106
HV57161610DTC-8
SDA/SCL_MA
RESETX1
CN7454
AKM1201
MAIN_Y/C (CV,Y/C)
Y/C SEP.
CHROMA DEC
MAIN
IC6107
PD0278A
RA/GA/BA_MAIN [0:7] (RGB/YPbPr)
FLD_MAIN
HD/VD/DE/CK_MAIN
HD/VD_MAIN
R/G/B_DA_MAIN (RGB)
X7001
ASS1175
(27MHz)
BUFFER
IC6106
TC74LCX125FT
SYSCLK1S
R/G/B_CCTXT (RGB)
MIX SW
MAIN
IC6406
MM1389XFBE
HD/VD_TXT_MAIN
MIX SW
MAIN
IC6403
MM1389XFBE
SDA/SCL_MA
AD MAIN
IC6402
AD80058-K
HD/CK_MAIN
MAINC_Y/Pb/Pr (RGB/YPbPr)
LPF MAIN
IC6401
SM5301BS
MAINC_Y
SYNC SEP.
MAIN
IC6404
BA707BAF
PCA_H/V
SUB_Y/C (CV,Y/C)
Y/C SEP.
CHROMA DEC
SUB
IC6255
PD0278A
FLD_SUB
RESETX1
SDA/SCL_MA
R/G/B_DA_SUB (RGB)
MIX SW
MAIN
IC6605
MM1389XFBE
HD/VD_TXT_SUB
SCL/SDA_EP2
SDA/SCL_HDMI/TXT
SDA/SCL_MA
AD SUB
IC6602
AD80058-K
HD/CK_SUB
SUBC_Y/Pb/Pr (RGB/YPbPr)
LPF SUB
IC6601
SM5301BS
SUB_C_Y
SYNC SEP.
SUB
IC6604
BA707BAF
PCA_H/V_SUB
HD/VD_TXT
CN6951
AKM1201
GDT [0:7] (Y) , BDT [0:7] (Pb/Pr)
SYNC SEL.
IC7452
TC74VHC126FT
HDT, VDT, CKDT, DEDT
RST_DT
RXD/TXD_DT
SDA/SCL_MA
JA6881
AKP1232
TMDS
HDMI2 Rx
IC6881
SII9993CTG100
R/G/BDV2 [0:7] (RGB/YPbPr)
HDV2, VDV2, DEDV2, CKDV2
SEL.
IC6951
PD6435A
HD/VD/DE/CK_MAIN
SCL, SDA
I2S_SPDIF_2 [0:3]
HD/VD/DE/CK_SUB
EEPROM
IC6880
BR24L04FJ-W
RESETX1
RESETX1
SDA/SCL_MA
CN7455
AKM1201
TTX_R/G/B_DIG (RGB from TXT)
HDMI_L/RCH
AUDIO DAC
IC6803
PCM1742KE
HDMI_AUDIO_CE/TXD/CLK
AUDIO_L/R
SCL/SDA_AV
RXD/TXD/CLK_WR, RXD/TXD/CLK_IF
RST_IF/TXT
RAPID_DT1 RAPID_DT3



64M SDRAM
IC7001, IC7002
HY57V64322OCT-7
64M FLASH
IC7152
MBM29PL3200BE70PFV
RXD/TXD/CLK__IC2
RESETX2
RXD/TXD/CLK_IC3
UART_RXD/TXD
RESETX2
SDA/SCL_HDCP
RST_HDCP
CN7401
AKP1250
RA/GA/BA_IC2 [0:7]
RB/GB/BB_IC2 [0:7]
(RGB)
I/P
IC7004
PE5362A
HD/VD/DE/CK_MAIN
H/V/DE/DCLK_IC2
RESIZE MIX
IC7101
PD5855A
RA/GA/BA [0:9]
(RGB)
DVI Tx
IC7401
SII170BCLG64
TMDS
VDO, CLKO
FIELD
HDO, DEO, CLKO
HD/DE_OUT
CLP_MAIN
PLLHD/PLLHOLD_MAIN
HD1/VD1_MAIN
HD2/VD2_MAIN
SYSCLK_2
HD/VD/DE/CK_SUB
CLP/PLLHD/PLLHOLD_SUB
HD1/VD1_SUB
HD2/VD2_SUB
RA/GA/BA_SUB [0:7]
(YCbCr/RGB)
SYSCLK_3
SYNC SEL.
IC6408
TC74VHC126FT
LOGIC
IC7403
TC74VHC574FT
HDO, DEO
LOGIC
IC7404
TC74VCX08FT
5→3.3V CONV.
IC6405
TC74VHC126FT
BUFFER
IC7003
TC74LCX125FT
CN7402
AKM1234
FIELD2
MRXD, MTXD
X7001
ASS1174
(85MHz)
HD/VD/DE/CK_SUB
HD/VD_SUB
A
MR MAIN BOARD ASSY
SYNC SEL.
IC6607
TC74VHC126FT
5→3.3V CONV.
IC6603
TC74VHC126FT
PDP-R05XE, PDP-R05E
RAPID_DT1
RAPID_DT3
SCL/SDA_MA, SCL/SDA_HDCP
SCL/SDA_AV, SCL/SDA_EP2
SCL/SDA_HDMI/TXT
RXD/TXD/CLK_IC2
RXD/TXD/CLK_IC3
RXD/TXD/CLK_IF
SCL/SDA_EP
EEPROM
IC7205
BR24L64F-W
EEPRST
MAIN UCOM
IC7207
MB91F355APMTGE1
MRXD, MTXD
UART SEL.
IC7202
TC74VHC125FT
UART_RXD/TXD
RST_DT/HDCP/IF/TXT
RST_ASIC
LOGIC
IC7451
TC74VHC08FT
RESETX1, RESETX2
RXD/TXD_DT
UART SEL.
IC7204
T74VHC125FT
RESET
RST2
RXD/TXD/CLK_WR
HDMI_AUDIO_CE/TXD/CLK
RESET IC
IC7203
PST3628UR
RESET IC
IC7206
PST3628UR
RESET IC
IC7210
PST3612UR

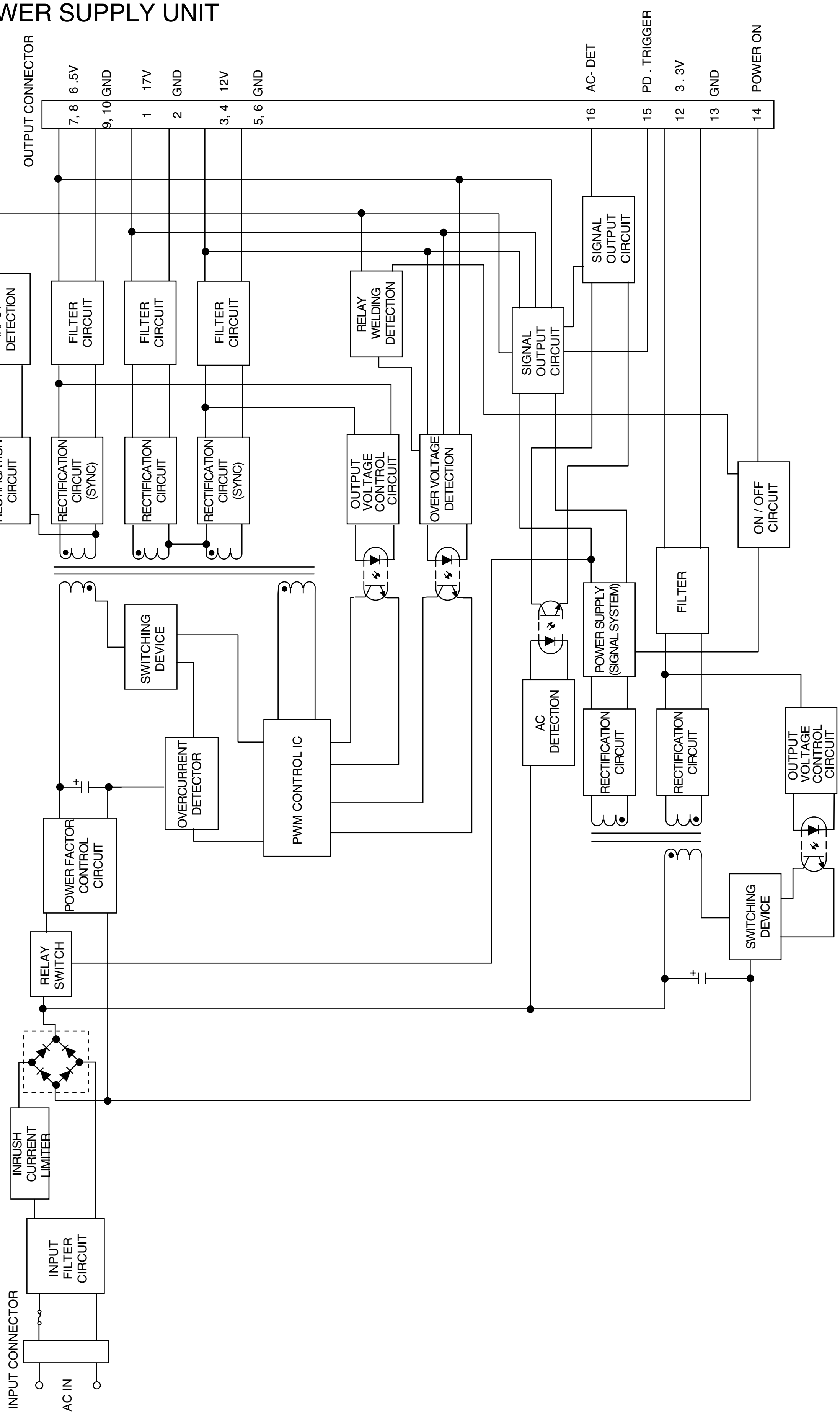
3.1.3 AV BOARD ASSY


ANTENNA
IN
U7501
AXF1133
IC7501
TDA9818TS
IC7502
MSP3417G
AIR_V
AIR_R/L
V1_RED/GRN/BLE
V1_V/R/L
SLOW_SW1
RAPID_SW1
VIDEO1
SLOW_SW2
V2_V/Y/C/R/L
VOUT
AUDIO_R/L
VIDEO2
VOUT3
RAPID_SW3
SLOW_SW3
V3_V/Y/C
DVD_RCH/LCH
AUDIO_R/L
V3_RED/GRN/BLE
VIDEO3
AIR_V
AIR_R/L
IC8002
CXA2069Q
MAIN_Y
IC8904
SDA6000
TELETEXT
UCOM
MAIN_SW_A/C
SUB_SW_A/C
IC8901
PST9230N
VIDEO2
Component
Y
PB
PR
CN8653
AKM1201
CN9502
AKM1201
G
FRONT
ASSY
VIDEO4
V4_Y
V4_C
V4_V
V4_R
V4_L
32
30
25
20
22
19
21
26
31
29
PDP-R05XE/R05E
H.P.
HP_L
HP_R
38
36
13
15
PC
PC_LCH
PC_RCH
PC_R
PC_G
PC_B
PC_H
PC_V
18
16
13
11
94
74
54
33
35
38
40
2
4
6
IC8005
AN15852A
PDP-R05XE/R05E
IC8007
BH3544F
6dB AMP
IC8008
BH3540AFS
VOL.IC
HP_VOL
PC_V
PDP-R05XE/R05E
PC CARD
MODULE
L
CN8660 HFW12S-2STE1
12 YUVD1_R
10 YUVD1_G
8 YUVD1_B
4 CARD_V
5 CARD_H
2 TXD_CARD
1 RXD_CARD


B AV BOARD ASSY
IC8003
TC4052BFT
AUDIO SW
AUDIO_L
AUDIO_R
VOUT
COUT
YOUT
MONITOR
OUT
IC8702
HD64F3687FP
UIF UCOM
RESET
IC8703
PST9231N
UIF_UCOM
CN8654
AKM1201
30–32,35–40,
48,50
AUDIO_R 3
AUDIO_L 5
HDMI_RCH 7
HDMI_LCH 9
SCL_AV 34
SDA_AV 33
RAPID_DT_1 1
RAPID_DT_3 3
HP_VOL 48
TXT_RGB_DIG 12–27
PIXEL_CLK_IN 11
IC8902
TC7W126FU
IC8907
TC7SH04FU
MAIN_SW_A/C
IC9105
TC4051BF
IC9107
TC4051BF
B_SW_A/C
CN8662
AKM1303
PDP-R05XE
DTV ASSY
CN8652
AKM1201
PN2 14
MAIN_Y 49
MAIN_C 47
SUB_Y 33
SUB_C 31
WE_TXT 10
VD_TXT_MAIN 15
HD_TXT_MAIN 16
R_TXT_MAIN 37
G_TXT_MAIN 35
B_TXT_MAIN 39
FBLK_MAIN 23
FBLK_SUB 22
SCL_TXT 9
SDA_TXT 8
MAINC_Y/PB/PR
SUBC_Y/PB/PR
MAINC_Y 41
MAINC_PB 45
MAINC_PR 43
SUBC_Y 25
SUBC_PB 29
SUBC_PR 27
SUB
WOOFER
IC7701
TC74VHC125FT
IC7702
TC74VHC125FT
PC_V
IC8001
TC7WH123FU
DSUB_DET 13
PCA_V 19
PCA_H 20
PCA_V_SUB 17
PCA_H_SUB 18
TXD_CARD 12
RXD_CARD 11

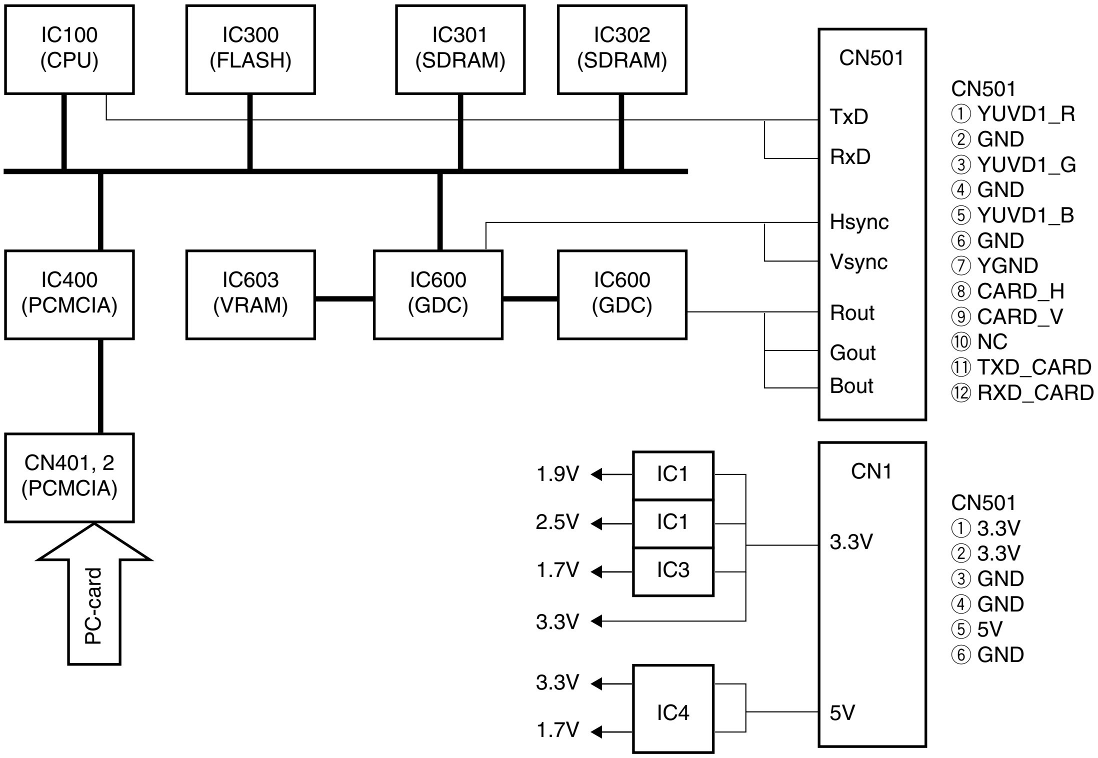
3.1.4 POWER SUPPLY UNIT

K POWER SUPPLY UNIT


OUTPUT CONNECTOR
7, 8 6 .5V
9, 10 GND
1 17V
2 GND
3, 4 12V
5, 6 GND
16 AC- DET
15 PD . TRIGGER
12 3 . 3V
13 GND
14 POWER ON
SIGNAL OUTPUT CIRCUIT
INPUT DETECTION
FILTER CIRCUIT
FILTER CIRCUIT
FILTER CIRCUIT
RELAY WELDING DETECTION
SIGNAL OUTPUT CIRCUIT
RECTIFICATION CIRCUIT
RECTIFICATION CIRCUIT (SYNC)
RECTIFICATION CIRCUIT
RECTIFICATION CIRCUIT (SYNC)
OUTPUT VOLTAGE CONTROL CIRCUIT
OVER VOLTAGE DETECTION
ON / OFF CIRCUIT
FILTER
POWER SUPPLY (SIGNAL SYSTEM)
SWITCHING DEVICE
AC DETECTION
RECTIFICATION CIRCUIT
RECTIFICATION CIRCUIT
OUTPUT VOLTAGE CONTROL CIRCUIT
OVERCURRENT DETECTOR
PWM CONTROL IC
POWER FACTOR CONTROL CIRCUIT
+
+
SWITCHING DEVICE
RELAY SWITCH
INRUSH CURRENT LIMITER
INPUT FILTER CIRCUIT
INPUT CONNECTOR
AC IN

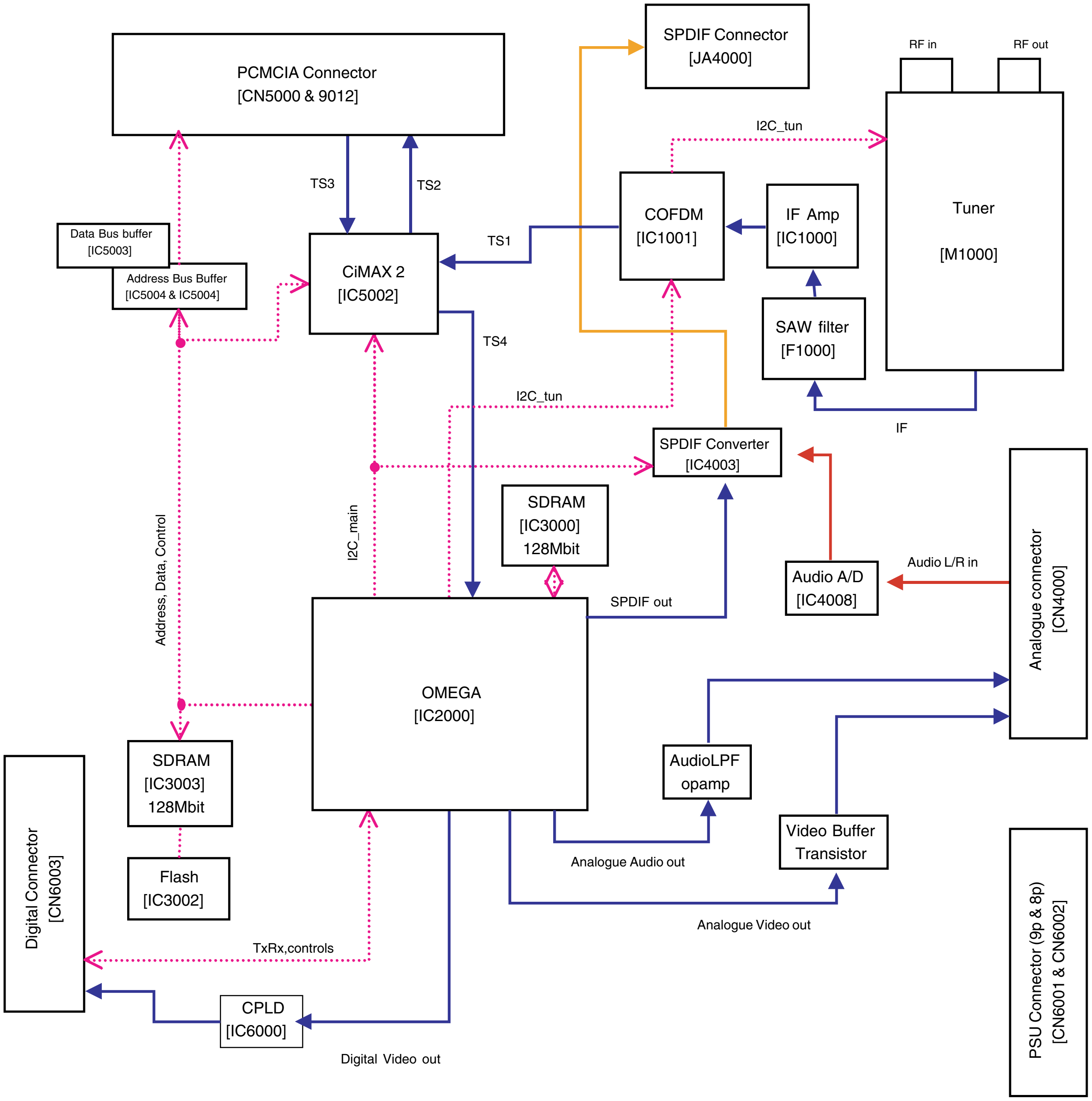
3.1.5 PC CARD MODULE

J PC CARD MODULE


IC100
(CPU)
IC300
(FLASH)
IC301
(SDRAM)
IC302
(SDRAM)
CN501
TxD
RxD
Hsync
Vsync
Rout
Gout
Bout
CN501
① YUVD1_R
② GND
③ YUVD1_G
④ GND
⑤ YUVD1_B
⑥ GND
⑦ YGND
⑧ CARD_H
⑨ CARD_V
⑩ NC
⑪ TXD_CARD
⑫ RXD_CARD
IC400
(PCMCIA)
IC603
(VRAM)
IC600
(GDC)
IC600
(GDC)
CN401, 2
(PCMCIA)
PC-card
1.9V
2.5V
1.7V
3.3V
IC1
IC1
IC3
CN1
3.3V
CN501
① 3.3V
② 3.3V
③ GND
④ GND
⑤ 5V
⑥ GND
3.3V
1.7V
IC4
5V

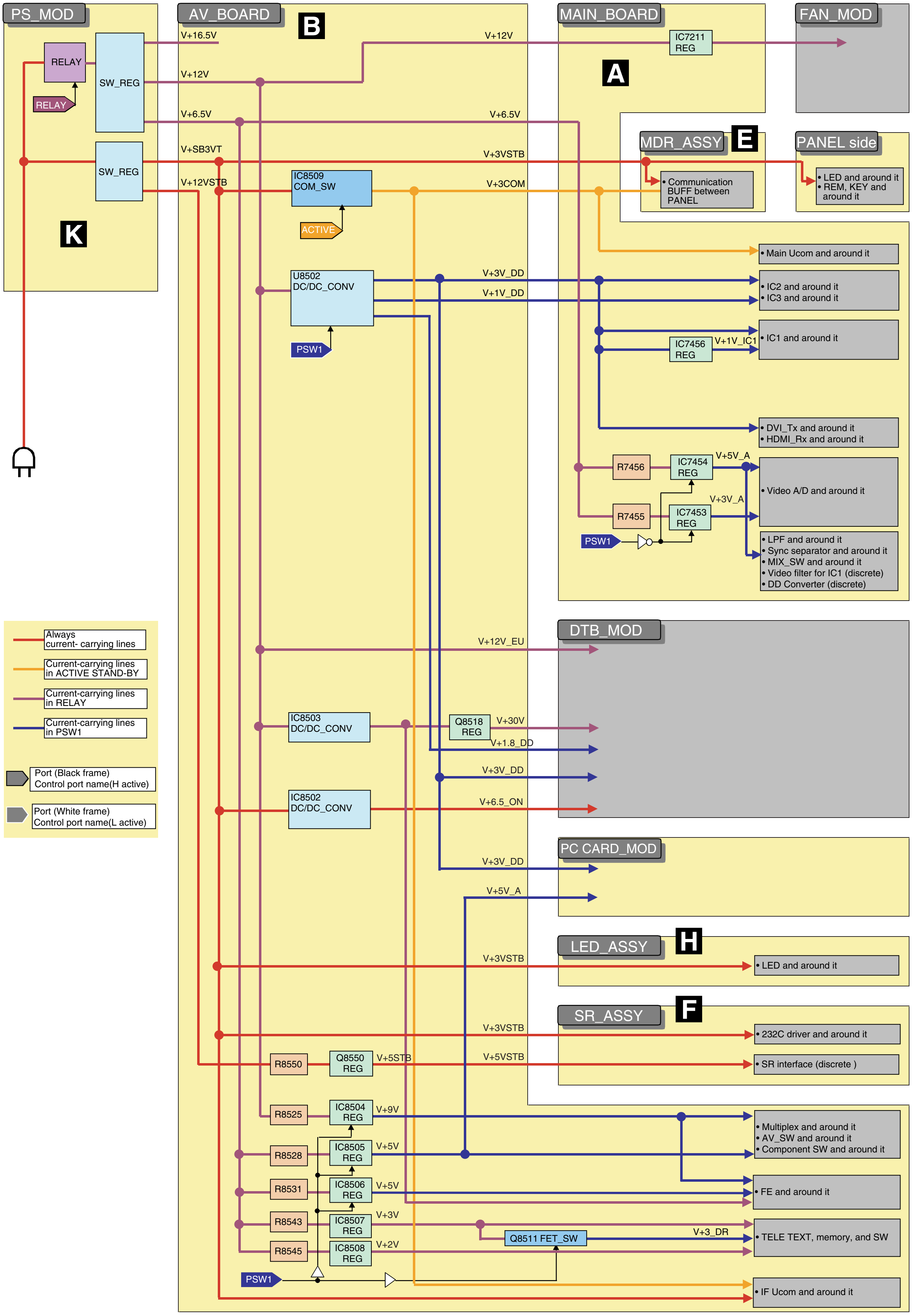
3.1.6 TUNER BOARD ASSY

Media Receiver European Digital Tuner PDP-R05XE

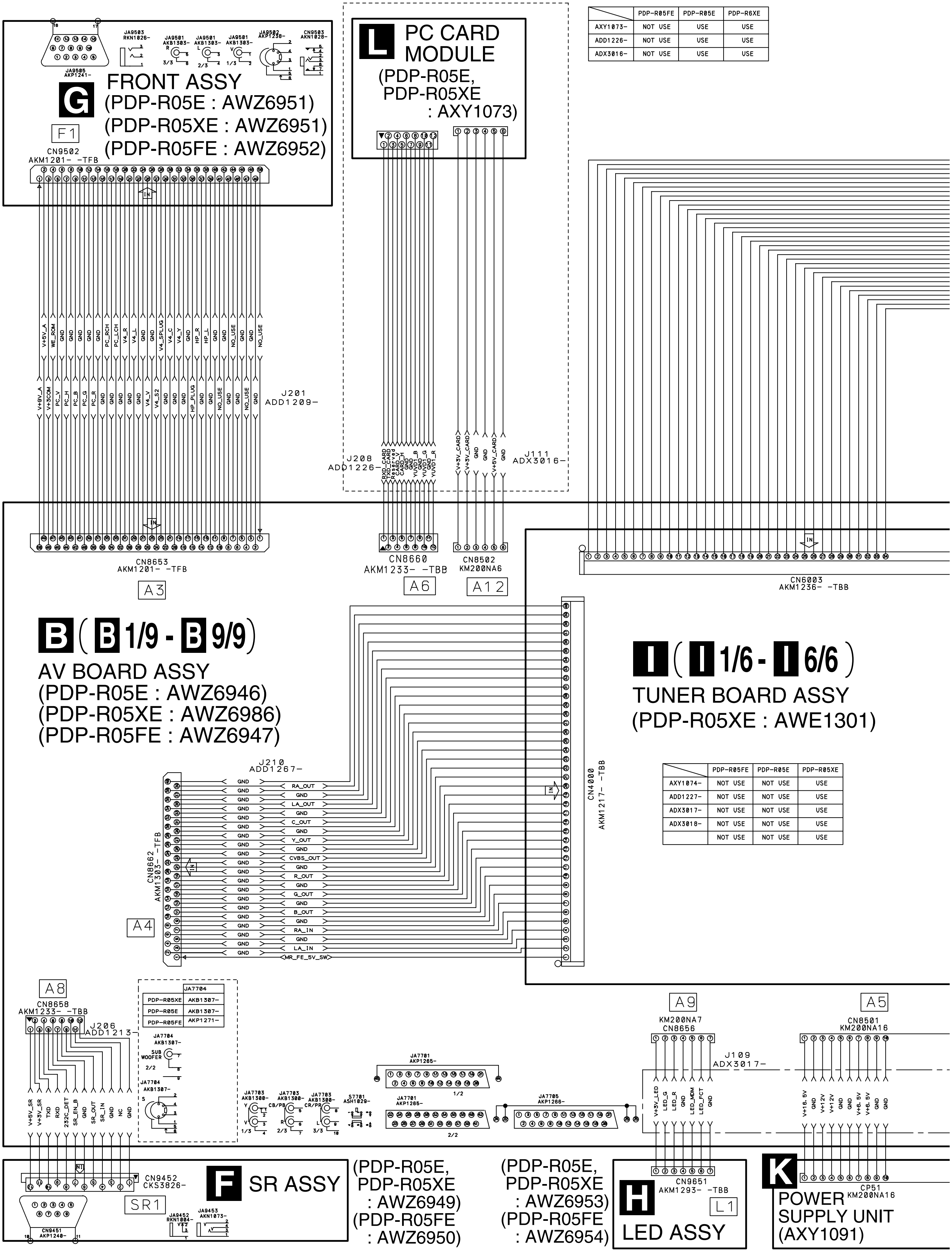


PCMCIA Connector
[CN5000 & 9012]
SPDIF Connector
[JA4000]
RF in
RF out
I2C_tun
Tuner
[M1000]
TS3
TS2
COFDM
[IC1001]
IF Amp
[IC1000]
Data Bus buffer
[IC5003]
TS1
Address Bus Buffer
[IC5004 & IC5004]
CiMAX 2
[IC5002]
SAW filter
[F1000]
TS4
I2C_tun
IF
SPDIF Converter
[IC4003]
SDRAM
[IC3000]
128Mbit
Address, Data, Control
I2C_main
Audio A/D
[IC4008]
Audio L/R in
Analogue connector
[CN4000]
SPDIF out
OMEGA
[IC2000]
AudioLPF
opamp
SDRAM
[IC3003]
128Mbit
Digital Connector
[CN6003]
Video Buffer
Transistor
Analogue Audio out
Flash
[IC3002]
PSU Connector (9p & 8p)
[CN6001 & CN6002]
Analogue Video out
TxRx,controls
CPLD
[IC6000]
Digital Video out

3.1.7 POWER SUPPLY


PS_MOD
RELAY
SW_REG
RELAY
SW_REG
K
AV_BOARD
B
V+16.5V
V+12V
V+12V
V+6.5V
V+6.5V
V+SB3VT
V+3VSTB
V+12VSTB
IC8509
COM_SW
V+3COM
ACTIVE
U8502
DC/DC_CONV
V+3V_DD
V+1V_DD
PSW1
MAIN_BOARD
IC7211
REG
A
FAN_MOD
MDR_ASSY
E
• Communication BUFF between PANEL
PANEL side
• LED and around it
• REM, KEY and around it
• Main Ucom and around it
• IC2 and around it
• IC3 and around it
IC7456
REG
V+1V_IC1
• IC1 and around it
• DVI_Tx and around it
• HDMI_Rx and around it
R7456
IC7454
REG
V+5V_A
• Video A/D and around it
V+3V_A
R7455
IC7453
REG
PSW1
• LPF and around it
• Sync separator and around it
• MIX_SW and around it
• Video filter for IC1 (discrete)
• DD Converter (discrete)
Always current- carrying lines
Current-carrying lines in ACTIVE STAND-BY
Current-carrying lines in RELAY
Current-carrying lines in PSW1
Port (Black frame) Control port name(H active)
Port (White frame) Control port name(L active)
DTB_MOD
V+12V_EU
IC8503
DC/DC_CONV
Q8518
REG
V+30V
V+1.8_DD
V+3V_DD
IC8502
DC/DC_CONV
V+6.5_ON
PC CARD_MOD
V+3V_DD
V+5V_A
LED_ASSY
H
V+3VSTB
• LED and around it
SR_ASSY
F
V+3VSTB
• 232C driver and around it
R8550
Q8550
REG
V+5STB
V+5VSTB
• SR interface (discrete)
R8525
IC8504
REG
V+9V
• Multiplex and around it
• AV_SW and around it
• Component SW and around it
R8528
IC8505
REG
V+5V
R8531
IC8506
REG
V+5V
• FE and around it
R8543
IC8507
REG
V+3V
Q8511 FET_SW
V+3_DR
• TELE TEXT, memory, and SW
R8545
IC8508
REG
V+2V
PSW1
• IF Ucom and around it

3.2 OVERALL WIRING CONNECTION DIAGRAM


JA9505
AKP1241-
JA9503
RKN1026-
JA9501
AKB1303-
R
3/3
JA9501
AKB1303-
L
2/3
JA9501
AKB1303-
V
1/3
JA9502
AKP1238-
CN9503
AKN1028-
G
FRONT ASSY
(PDP-R05E : AWZ6951)
(PDP-R05XE : AWZ6951)
(PDP-R05FE : AWZ6952)
F1
CN9502
AKM1201- -TFB
IN
V+5V_A
WE_ROM
GND
PC_RCH
PC_LCH
V4_R
V4_L
V4_SPLUG
V4_C
V4_Y
HP_R
HP_L
NO_USE
V+9V_A
V+3COM
PC_V
PC_H
PC_B
PC_G
PC_R
V4_V
V4_S2
HP_PLUG
J201
ADD1209-
L
PC CARD MODULE
(PDP-R05E,
PDP-R05XE
: AXY1073)
J208
ADD1226-
RXD_CARD
TXD_CARD
Reserved
CARD_V
CARD_H
YUVD1_B
YUVD1_G
YUVD1_R
V+3V_CARD
V+5V_CARD
J111
ADX3016-
CN8653
AKM1201- -TFB
A3
CN8660
AKM1233- -TBB
A6
CN8502
KM200NA6
A12
CN6003
AKM1236- -TBB
B (B 1/9 - B 9/9)
AV BOARD ASSY
(PDP-R05E : AWZ6946)
(PDP-R05XE : AWZ6986)
(PDP-R05FE : AWZ6947)
I (I 1/6 - I 6/6)
TUNER BOARD ASSY
(PDP-R05XE : AWE1301)
CN4000
AKM1217- -TBB
J210
ADD1267-
CN8662
AKM1303- -TFB
A4
RA_OUT
LA_OUT
C_OUT
Y_OUT
CVBS_OUT
R_OUT
G_OUT
B_OUT
RA_IN
LA_IN
MR_FE_5V_SW
A8
CN8658
AKM1233- -TBB
J206
ADD1213-
V+5V_SR
V+3V_SR
TXD
RXD
232C_DET
SR_EN_B
SR_OUT
SR_IN
NC
JA7704
AKB1307-
SUB WOOFER
2/2
JA7704
AKB1307-
S
JA7703
AKB1300-
Y
V
1/3
JA7703
AKB1300-
CB/PB
R
2/3
JA7703
AKB1300-
CR/PR
L
3/3
S7701
ASH1029-
JA7701
AKP1265-
1/2
JA7701
AKP1265-
2/2
JA7705
AKP1266-
A9
KM200NA7
CN8656
J109
ADX3017-
V+3V_LED
LED_G
LED_R
LED_MDM
LED_FCT
A5
CN8501
KM200NA16
V+16.5V
V+12V
V+6.5V
CN9452
CKS3826-
F
SR ASSY
SR1
CN9451
AKP1240-
JA9452
RKN1004-
JA9453
AKN1073-
(PDP-R05E,
PDP-R05XE
: AWZ6949)
(PDP-R05FE
: AWZ6950)
(PDP-R05E,
PDP-R05XE
: AWZ6953)
(PDP-R05FE
: AWZ6954)
H
CN9651
AKM1293- -TBB
L1
LED ASSY
K
CP51
KM200NA16
POWER
SUPPLY UNIT
(AXY1091)

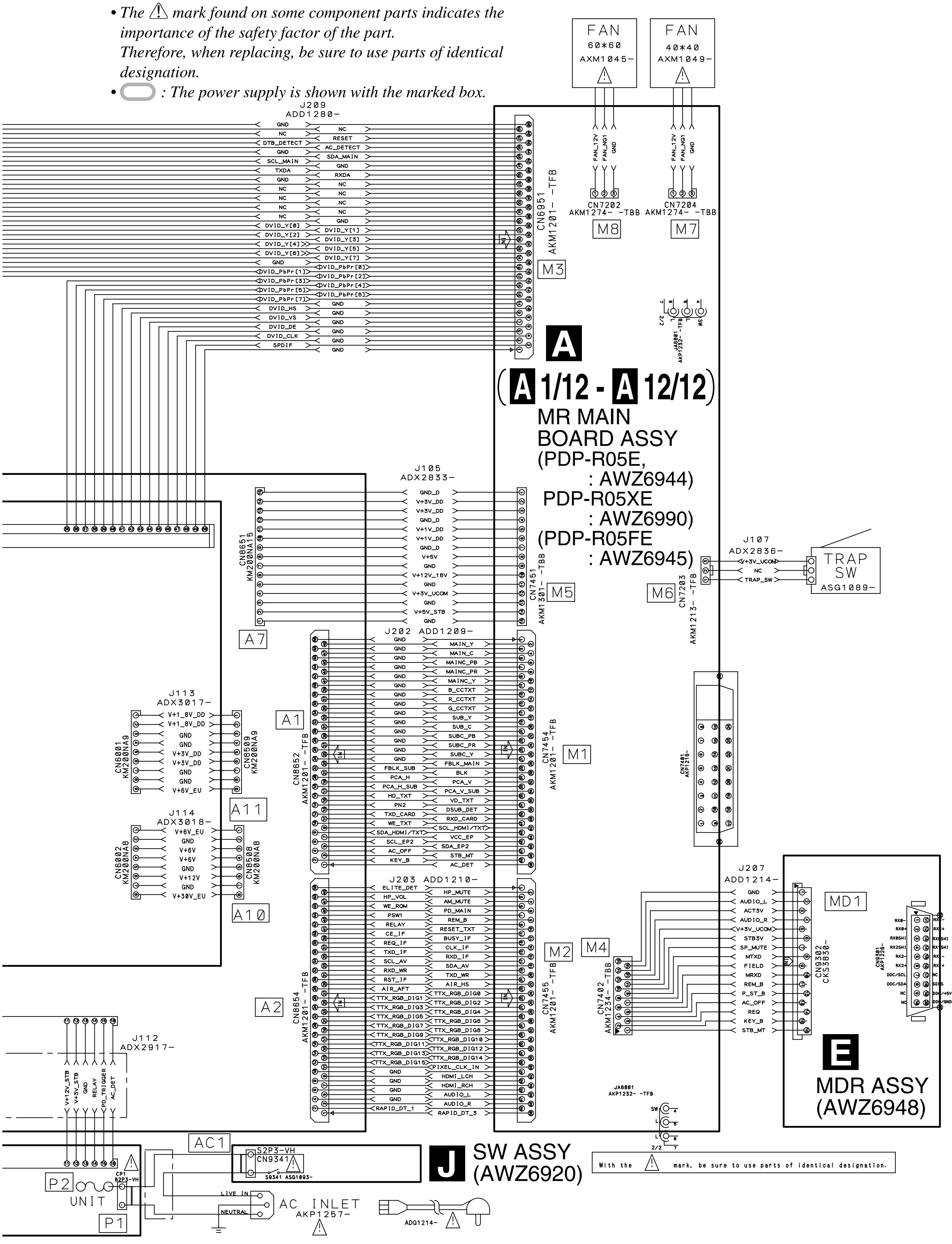
	PDP-R05FE	PDP-R05E	PDP-R6XE
AXY1073-	NOT USE	USE	USE
ADD1226-	NOT USE	USE	USE
ADX3016-	NOT USE	USE	USE

	PDP-R05FE	PDP-R05E	PDP-R05XE
AXY1074-	NOT USE	NOT USE	USE
ADD1227-	NOT USE	NOT USE	USE
ADX3017-	NOT USE	NOT USE	USE
ADX3018-	NOT USE	NOT USE	USE
	NOT USE	NOT USE	USE

	JA7704
PDP-R05XE	AKB1307-
PDP-R05E	AKB1307-
PDP-R05FE	AKP1271-

NOTES: • *When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".*

- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.*
  Therefore, when replacing, be sure to use parts of identical designation.
- ⬭ *: The power supply is shown with the marked box.*

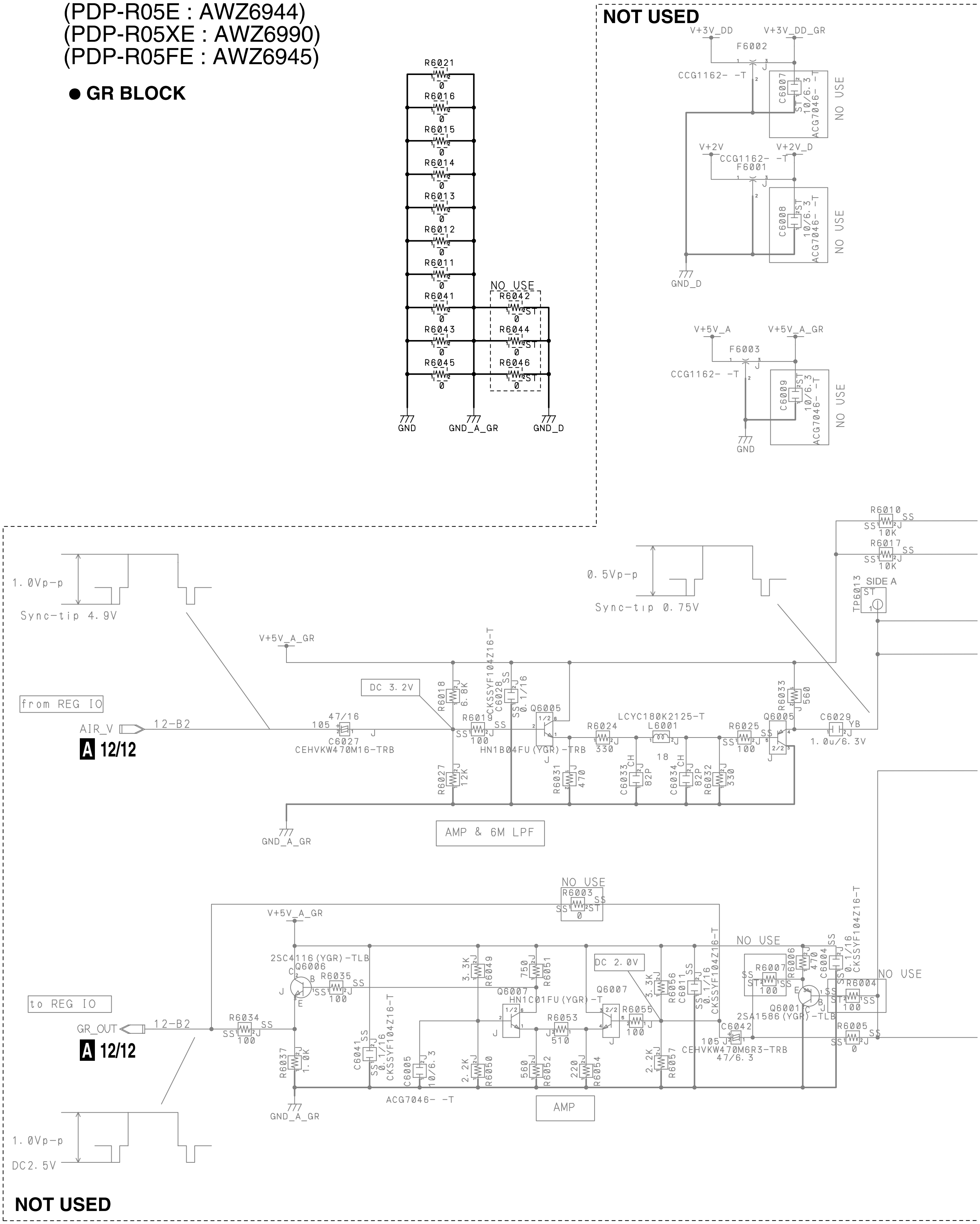

FAN 60*60 AXM1045-
FAN 40*40 AXM1049-
FAN_12V
FAN_NG1
GND
CN7202 AKM1274- -TBB
CN7204 AKM1274- -TBB
M8
M7
J209 ADD1280-
GND
NC
DTB_DETECT
SCL_MAIN
TXDA
DVID_Y[0]
DVID_Y[2]
DVID_Y[4]
DVID_Y[6]
DVID_PbPr[1]
DVID_PbPr[3]
DVID_PbPr[5]
DVID_PbPr[7]
DVID_HS
DVID_VS
DVID_DE
DVID_CLK
SPDIF
RESET
AC_DETECT
SDA_MAIN
RXDA
DVID_Y[1]
DVID_Y[3]
DVID_Y[5]
DVID_Y[7]
DVID_PbPr[0]
DVID_PbPr[2]
DVID_PbPr[4]
DVID_PbPr[6]
CN6951 AKM1201- -TFB
M3
JA6881 AKP1232- -TFB
A
A 1/12 - A 12/12
MR MAIN BOARD ASSY
(PDP-R05E, : AWZ6944)
PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)
J105 ADX2833-
GND_D
V+3V_DD
V+1V_DD
V+5V
V+12V_16V
V+3V_UCOM
V+5V_STB
CN8651 KM200NA15
CN7451 AKM1301- -TFB
M5
A7
J107 ADX2836-
V+3V_UCOM
NC
TRAP_SW
TRAP SW ASG1089-
CN7203 AKM1213- -TFB
M6
J202 ADD1209-
MAIN_Y
MAIN_C
MAINC_PB
MAINC_PR
MAINC_Y
B_CCTXT
R_CCTXT
G_CCTXT
SUB_Y
SUB_C
SUBC_PB
SUBC_PR
SUBC_Y
FBLK_MAIN
BLK
PCA_V
PCA_V_SUB
VD_TXT
DSUB_DET
RXD_CARD
SCL_HDMI/TXT
VCC_EP
SDA_EP2
STB_MT
AC_DET
FBLK_SUB
PCA_H
PCA_H_SUB
HD_TXT
PN2
TXD_CARD
WE_TXT
SDA_HDMI/TXT
SCL_EP2
AC_OFF
KEY_B
CN8652 AKM1201- -TFB
A1
CN7454 AKM1201- -TFB
M1
CN7401 AKP1216-
J113 ADX3017-
V+1_8V_DD
V+3V_DD
V+6V_EU
CN6001 KM200NA9
CN8509 KM200NA9
A11
J114 ADX3018-
V+6V_EU
V+6V
V+12V
V+30V_EU
CN6002 KM200NA8
CN8508 KM200NA8
A10
J203 ADD1210-
ELITE_DET
HP_VOL
WE_ROM
PSW1
RELAY
CE_IF
REQ_IF
TXD_IF
SCL_AV
RXD_WR
RST_IF
AIR_AFT
TTX_RGB_DIG1
TTX_RGB_DIG3
TTX_RGB_DIG5
TTX_RGB_DIG7
TTX_RGB_DIG9
TTX_RGB_DIG11
TTX_RGB_DIG13
TTX_RGB_DIG15
RAPID_DT_1
HP_MUTE
AM_MUTE
PD_MAIN
REM_B
RESET_TXT
BUSY_IF
CLK_IF
RXD_IF
SDA_AV
TXD_WR
AIR_HS
TTX_RGB_DIG0
TTX_RGB_DIG2
TTX_RGB_DIG4
TTX_RGB_DIG6
TTX_RGB_DIG8
TTX_RGB_DIG10
TTX_RGB_DIG12
TTX_RGB_DIG14
PIXEL_CLK_IN
HDMI_LCH
HDMI_RCH
AUDIO_L
AUDIO_R
RAPID_DT_3
CN8654 AKM1201- -TFB
A2
CN7455 AKM1201- -TFB
M2
M4
CN7402 AKM1234- -TBB
J207 ADD1214-
GND
AUDIO_L
ACT3V
AUDIO_R
V+3V_UCOM
STB3V
SP_MUTE
MTXD
FIELD
MRXD
REM_B
P_ST_B
AC_OFF
REQ
KEY_B
STB_MT
CN9302 CKS3830-
CN9301 AKP1228-
MD1
E
MDR ASSY (AWZ6948)
J112 ADX2917-
V+12V_STB
V+3V_STB
GND
RELAY
PD_TRIGGER
AC_DET
JA6881 AKP1232- -TFB
SW
L
2/2
AC1
S2P3-VH
CN9341
S9341 ASG1093-
J
SW ASSY (AWZ6920)
CP1 B2P3-VH
P2
UNIT
P1
LIVE IN
NEUTRAL
AC INLET AKP1257-
ADG1214-

With the ⚠ mark, be sure to use parts of identical designation.

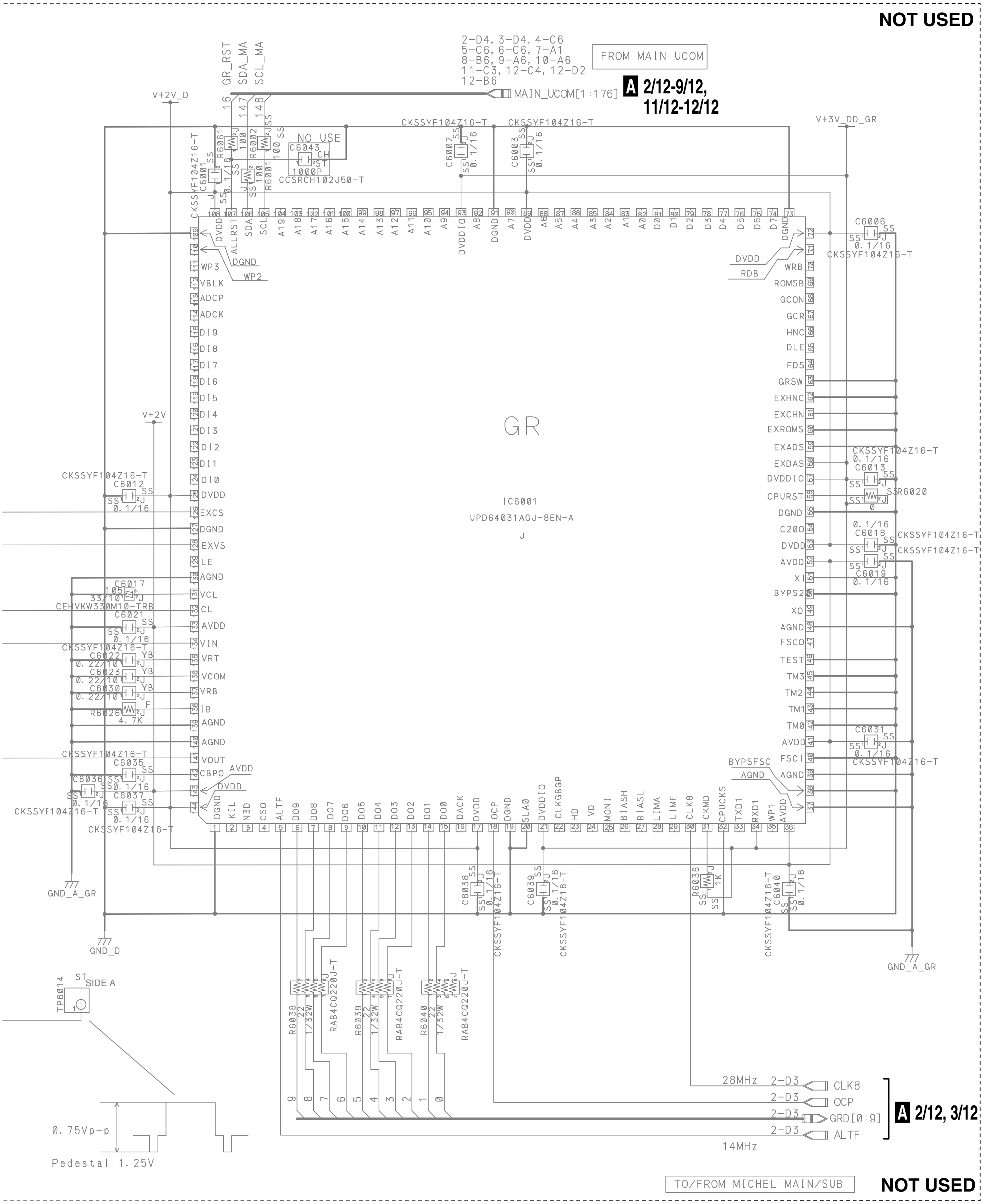
3.3 MR MAIN BOARD ASSY (1/12)

A 1/12 MR MAIN BOARD ASSY
(PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● **GR BLOCK**


NOT USED
R6021 0
R6016 0
R6015 0
R6014 0
R6013 0
R6012 0
R6011 0
R6041 0
R6043 0
R6045 0
NO USE
R6042 0 ST
R6044 0 ST
R6046 0 ST
GND
GND_A_GR
GND_D
V+3V_DD
V+3V_DD_GR
F6002
CCG1162- -T
C6007 ST 10/6.3 ACG7046- -T
NO USE
V+2V
V+2V_D
CCG1162- -T
F6001
C6008 ST 10/6.3 ACG7046- -T
NO USE
GND_D
V+5V_A
V+5V_A_GR
F6003
CCG1162- -T
C6009 ST 10/6.3 ACG7046- -T
NO USE
GND
1.0Vp-p
Sync-tip 4.9V
0.5Vp-p
Sync-tip 0.75V
R6010 10K SS
R6017 10K SS
TP6013 SIDE A ST
V+5V_A_GR
from REG IO
DC 3.2V
AIR_V
12-B2
A 12/12
105 47/16
C6027
CEHVKW470M16-TRB
R6018 6.8K
R6019 100
CKSSYF104Z16-T
C6028 0.1/16
Q6005
HN1B04FU(YGR)-TRB
R6024 330
LCYC180K2125-T
L6001 18
R6033 560
R6025 100
Q6005
C6029 1.0u/6.3V YB
R6027 12K
R6031 470
C6033 CH 82P
C6034 CH 82P
R6032 330
GND_A_GR
AMP & 6M LPF
NO USE
R6003 0
V+5V_A_GR
2SC4116(YGR)-TLB
Q6006
R6035 100
to REG IO
GR_OUT
12-B2
A 12/12
R6034 100
R6037 1.0K
C6041 0.1/16 CKSSYF104Z16-T
C6005 10/6.3
ACG7046- -T
GND_A_GR
R6049 3.3K
R6050 2.2K
R6051 750
Q6007
HN1C01FU(YGR)-T
R6053 510
R6052 560
R6054 220
DC 2.0V
Q6007
R6055 100
R6056 3.3K
R6057 2.2K
C6011 0.1/16 CKSSYF104Z16-T
AMP
NO USE
R6007 100
R6006 470
C6004 0.1/16 CKSSYF104Z16-T
C6042
105
CEHVKW470M6R3-TRB
47/6.3
2SA1586(YGR)-TLB
Q6001
NO USE
R6004 100
R6005 0
1.0Vp-p
DC2.5V
NOT USED

A 1/12


NOT USED
2-D4, 3-D4, 4-C6
5-C6, 6-C6, 7-A1
8-B6, 9-A6, 10-A6
11-C3, 12-C4, 12-D2
12-B6
FROM MAIN UCOM
MAIN_UCOM[1:176]
A 2/12-9/12, 11/12-12/12
GR_RST
SDA_MA
SCL_MA
V+2V_D
V+3V_DD_GR
V+2V
NO USE
C6043
1000P
CCSRCH102J50-T
R6061
R6002
R6001
C6001
C6002
C6003
C6006
CKSSYF104Z16-T
0.1/16
GR
IC6001
UPD64031AGJ-8EN-A
J
C6012
C6017
CEHVKW330M10-TRB
C6021
C6022
C6023
C6030
0.22/10
R6026
4.7K
C6035
C6036
C6037
C6013
SSR6020
C6018
C6019
C6031
C6038
C6039
R6036
1K
C6040
GND_A_GR
GND_D
TP6014
SIDE A
R6038
R6039
R6040
22
1/32W
RAB4CQ220J-T
0.75Vp-p
Pedestal 1.25V
28MHz
14MHz
2-D3
CLK8
OCP
GRD[0:9]
ALTF
A 2/12, 3/12
TO/FROM MICHEL MAIN/SUB
NOT USED

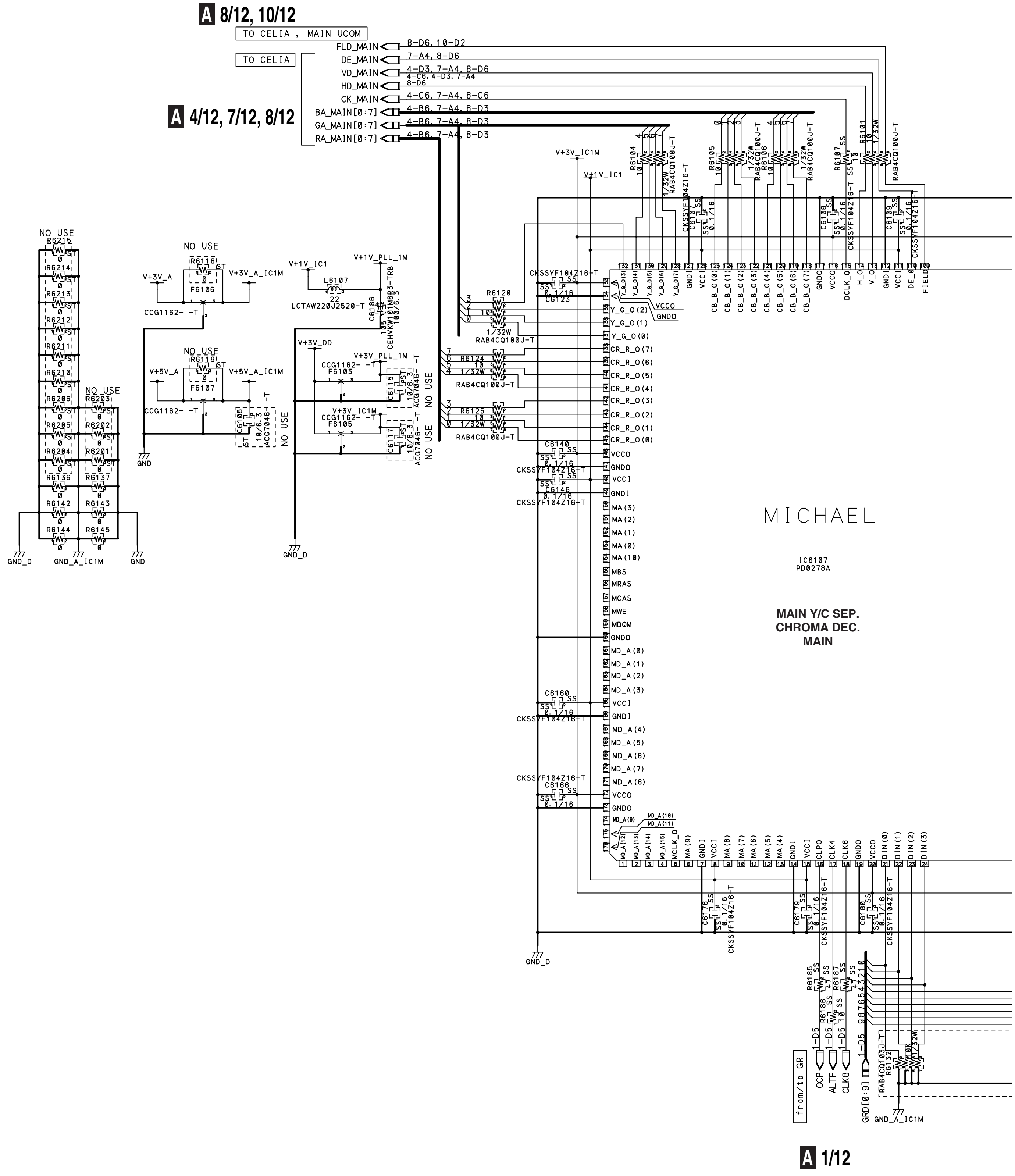
for J

A 1/12

3.4 MR MAIN BOARD ASSY (2/12)

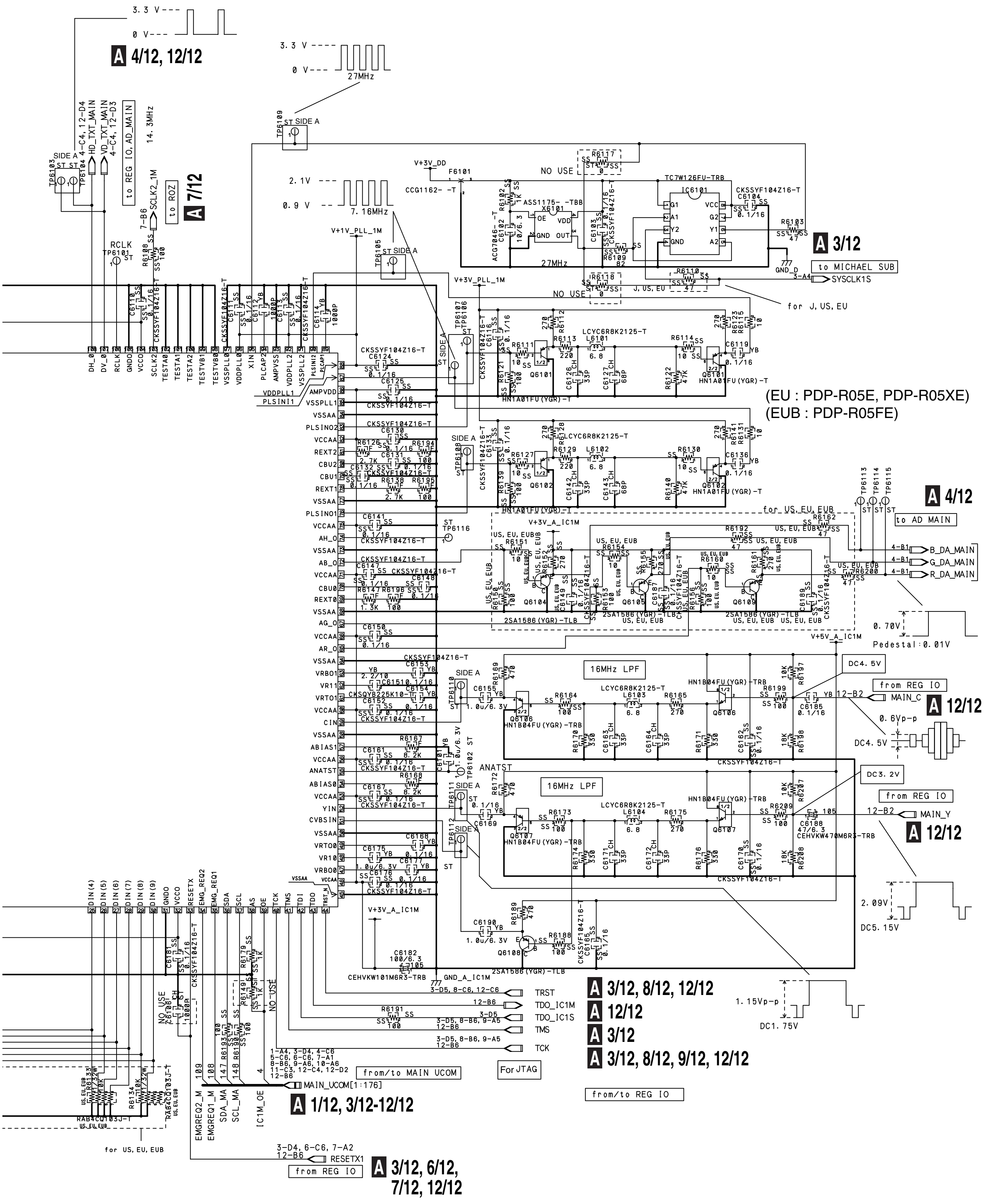
A 2/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● MICHEL MAIN BLOCK



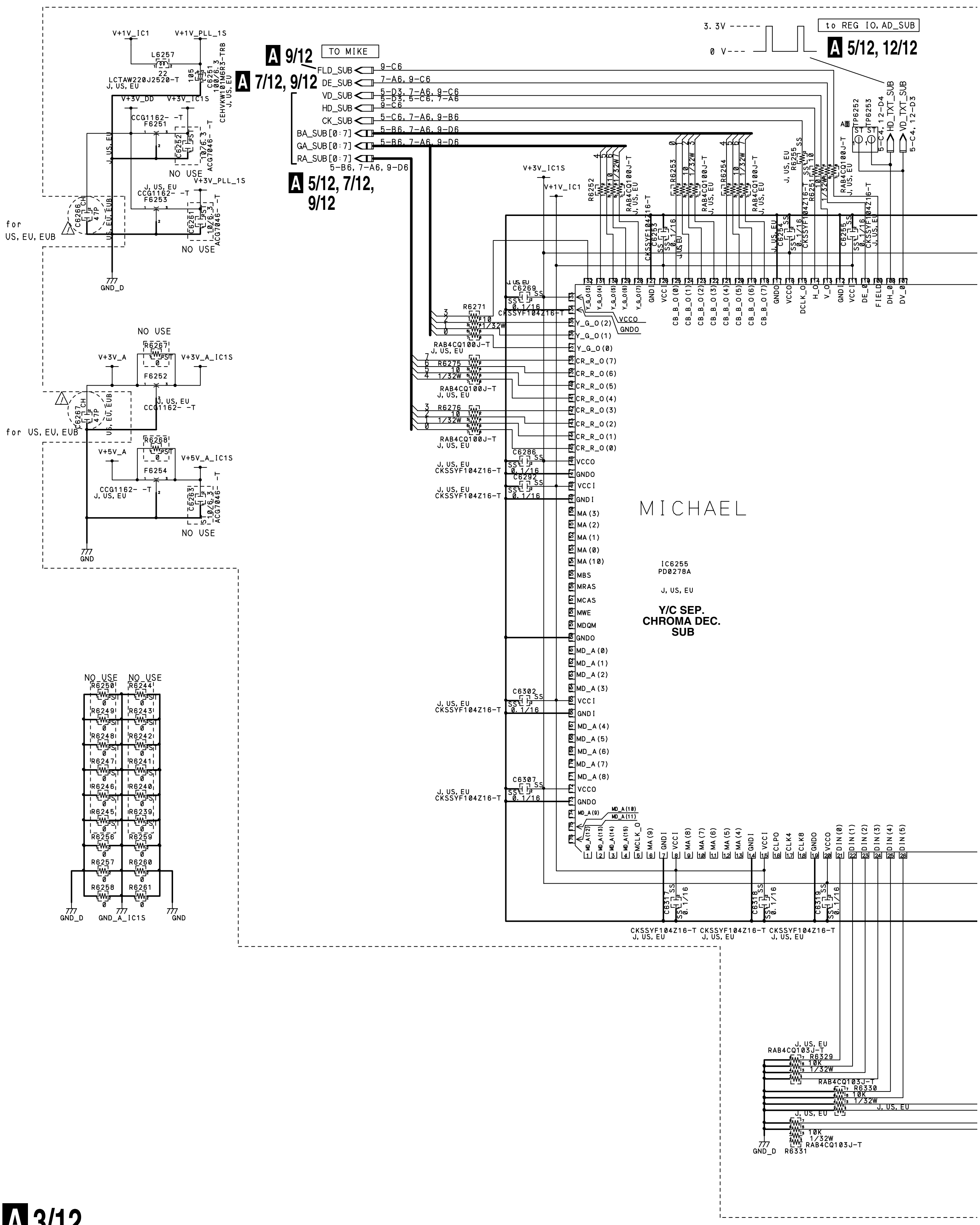
A 8/12, 10/12
TO CELIA , MAIN UCOM
TO CELIA
FLD_MAIN 8-D6, 10-D2
DE_MAIN 7-A4, 8-D6
VD_MAIN 4-D3, 7-A4, 8-D6
HD_MAIN 4-C6, 4-D3, 7-A4 8-D6
CK_MAIN 4-C6, 7-A4, 8-C6
BA_MAIN[0:7] 4-B6, 7-A4, 8-D3
GA_MAIN[0:7] 4-B6, 7-A4, 8-D3
RA_MAIN[0:7] 4-B6, 7-A4, 8-D3
A 4/12, 7/12, 8/12
V+3V_IC1M
V+1V_IC1
R6104
R6105
R6106
R6107
R6101
RAB4CQ100J-T
CKSSYF104Z16-T
NO USE
R6215
R6214
R6213
R6212
R6211
R6210
R6206
R6205
R6204
R6203
R6202
R6201
R6136
R6137
R6142
R6143
R6144
R6145
GND_D
GND_A_IC1M
GND
V+3V_A
V+3V_A_IC1M
R6116
F6106
CCG1162- -T
V+5V_A
V+5V_A_IC1M
R6119
F6107
C6106
ACG7046-
V+1V_IC1
V+1V_PLL_1M
L6107
LCTAW220J2520-T
C6186
CEHVKW101M6R3-TRB
V+3V_DD
V+3V_PLL_1M
F6103
C6115
V+3V_IC1M
F6105
C6117
R6120
C6123
R6124
R6125
1/32W
C6140
C6146
C6160
C6166
Y_G_O(2)
Y_G_O(1)
Y_G_O(0)
CR_R_O(7)
CR_R_O(6)
CR_R_O(5)
CR_R_O(4)
CR_R_O(3)
CR_R_O(2)
CR_R_O(1)
CR_R_O(0)
VCCO
GNDO
VCCI
GNDI
MA(3)
MA(2)
MA(1)
MA(0)
MA(10)
MBS
MRAS
MCAS
MWE
MDQM
MD_A(0)
MD_A(1)
MD_A(2)
MD_A(3)
MD_A(4)
MD_A(5)
MD_A(6)
MD_A(7)
MD_A(8)
CB_B_O(0)
CB_B_O(1)
CB_B_O(2)
CB_B_O(3)
CB_B_O(4)
CB_B_O(5)
CB_B_O(6)
CB_B_O(7)
DCLK_O
H_O
V_O
DE_O
FIELD
MCLK_O
MA(9)
MA(8)
MA(7)
MA(6)
MA(5)
MA(4)
CLPO
CLK4
CLK8
DIN(0)
DIN(1)
DIN(2)
DIN(3)
MICHAEL
IC6107
PD0278A
MAIN Y/C SEP.
CHROMA DEC.
MAIN
C6178
C6179
C6180
R6185
R6186
R6187
R6132
RAB4CQ103J-T
from/to GR
OCP
ALTF
CLK8
GRD[0:9]
1-D5
A 1/12

A 2/12


A 4/12, 12/12
3.3 V
0 V
27MHz
2.1 V
0.9 V
7.16MHz
14.3MHz
to REG IO, AD_MAIN
to ROZ
A 7/12
HD_TXT_MAIN
VD_TXT_MAIN
SCLK2_1M
RCLK
TP6101
TP6103
TP6104
TP6105
TP6109
V+3V_DD
F6101
CCG1162- -T
NO USE
ASS1175- -TBB
X6101
TC7W126FU-TRB
IC6101
CKSSYF104Z16-T
A 3/12
to MICHAEL SUB
SYSCLK1S
GND_D
for J, US, EU
V+1V_PLL_1M
V+3V_PLL_1M
LCYC6R8K2125-T
L6101
L6102
Q6101
Q6102
HN1A01FU(YGR)-T
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)
A 4/12
to AD MAIN
B_DA_MAIN
G_DA_MAIN
R_DA_MAIN
V+3V_A_IC1M
2SA1586(YGR)-TLB
US, EU, EUB
Q6104
Q6105
Q6109
0.70V
Pedestal:0.01V
V+5V_A_IC1M
16MHz LPF
HN1B04FU(YGR)-TRB
L6103
L6104
Q6106
Q6107
DC4.5V
DC3.2V
from REG IO
MAIN_C
MAIN_Y
A 12/12
0.6Vp-p
CEHVKW470M6R3-TRB
ANATST
2.09V
DC5.15V
Q6108
CEHVKW101M6R3-TRB
GND_A_IC1M
TRST
TDO_IC1M
TDO_IC1S
TMS
TCK
For JTAG
A 3/12, 8/12, 12/12
A 12/12
A 3/12
A 3/12, 8/12, 9/12, 12/12
1.15Vp-p
DC1.75V
from/to MAIN UCOM
MAIN_UCOM[1:176]
A 1/12, 3/12-12/12
from/to REG IO
EMGREQ2_M
EMGREQ1_M
SDA_MA
SCL_MA
IC1M_OE
RAB4CQ103J-T
for US, EU, EUB
RESETX1
from REG IO
A 3/12, 6/12, 7/12, 12/12

3.5 MR MAIN BOARD ASSY (3/12)

● MICHEL SUB BLOCK

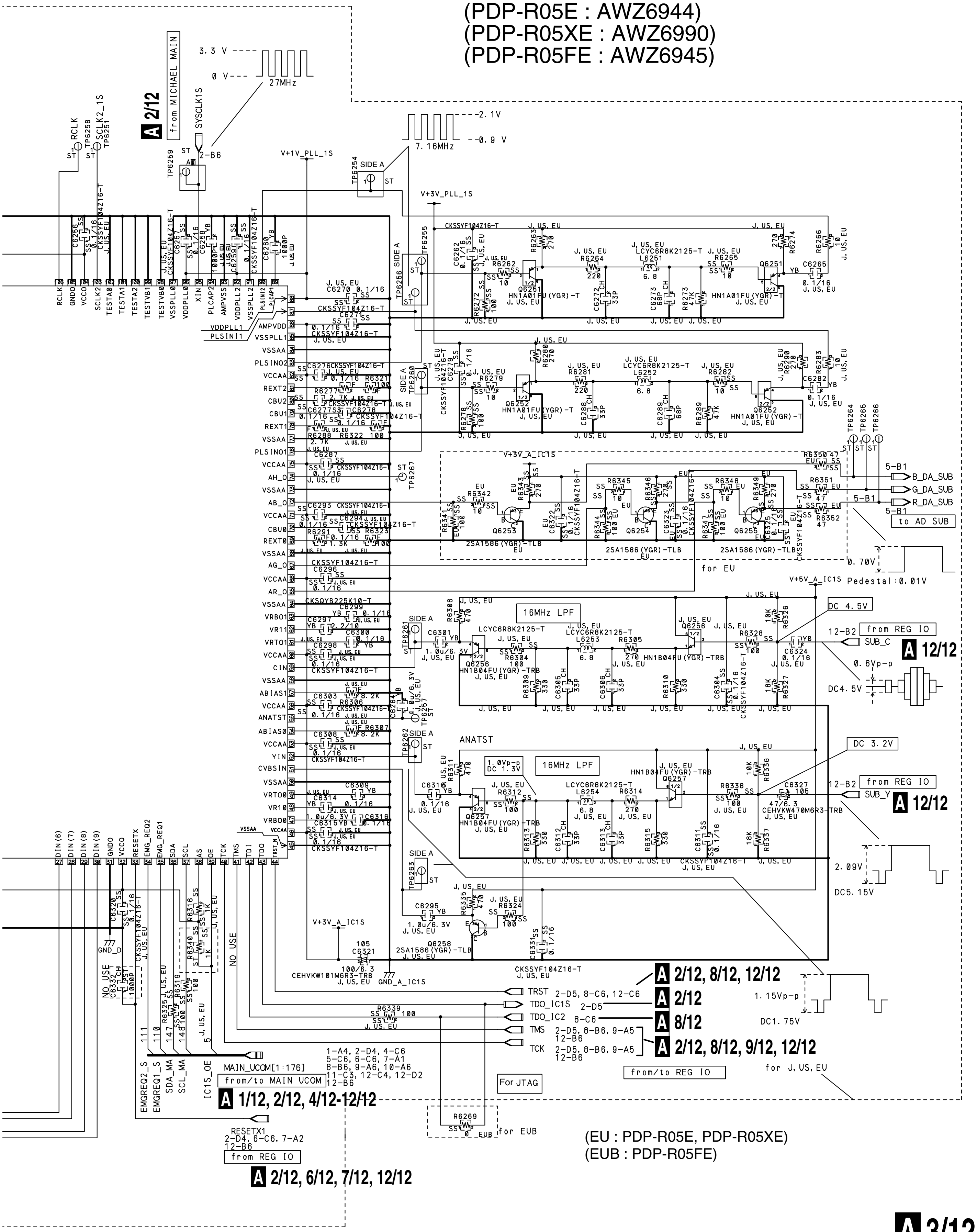


A 9/12
TO MIKE
A 7/12, 9/12
A 5/12, 7/12, 9/12
A 5/12, 12/12
to REG IO, AD_SUB
3.3V
0 V
FLD_SUB 9-C6
DE_SUB 7-A6, 9-C6
VD_SUB 5-D3, 7-A6, 9-C6
HD_SUB 5-D3, 5-C6, 7-A6 9-C6
CK_SUB 5-C6, 7-A6, 9-B6
BA_SUB[0:7] 5-B6, 7-A6, 9-D6
GA_SUB[0:7] 5-B6, 7-A6, 9-D6
RA_SUB[0:7] 5-B6, 7-A6, 9-D6
HD_TXT_SUB 5-C4, 12-D4
VD_TXT_SUB 5-C4, 12-D3
TP6252
TP6253
V+1V_IC1
V+1V_PLL_1S
L6257 22 LCTAW220J2520-T J, US, EU
C6251 100/6.3 CEHVKW101M6R3-TRB J, US, EU
V+3V_DD
V+3V_IC1S
CCG1162- -T F6251
C6252 10/6.3 ACG7046- -T NO USE
V+3V_PLL_1S
J, US, EU CCG1162- -T F6253
C6261 10/6.3 ACG7046- -T NO USE
C6266 CH 47P US, EU, EUB
for US, EU, EUB
GND_D
NO USE R6267 0 F6252
V+3V_A
V+3V_A_IC1S
J, US, EU CCG1162- -T
C6267 CH 47P US, EU, EUB
for US, EU, EUB
R6268 0 F6254
V+5V_A
V+5V_A_IC1S
CCG1162- -T J, US, EU
C6263 10/6.3 ACG7046- -T NO USE
GND
NO USE NO USE
R6250 R6244 R6249 R6243 R6248 R6242 R6247 R6241 R6246 R6240 R6245 R6239 R6256 R6259 R6257 R6260 R6258 R6261 0
GND_D GND_A_IC1S GND
V+3V_IC1S
V+1V_IC1
R6252 10 1/32W RAB4CQ100J-T J, US, EU
R6253 10 1/32W RAB4CQ100J-T J, US, EU
R6254 10 1/32W RAB4CQ100J-T J, US, EU
R6255 10 1/32W RAB4CQ100J-T J, US, EU
R6251 10 1/32W
C6253 0.1/16 CKSSYF104Z16-T J, US, EU
C6254 0.1/16 CKSSYF104Z16-T J, US, EU
C6255 0.1/16 CKSSYF104Z16-T J, US, EU
C6269 0.1/16 CKSSYF104Z16-T J, US, EU
R6271 10 1/32W RAB4CQ100J-T J, US, EU
R6275 10 1/32W RAB4CQ100J-T J, US, EU
R6276 10 1/32W RAB4CQ100J-T J, US, EU
C6286 0.1/16 CKSSYF104Z16-T J, US, EU
C6292 0.1/16 CKSSYF104Z16-T J, US, EU
C6302 0.1/16 CKSSYF104Z16-T J, US, EU
C6307 0.1/16 CKSSYF104Z16-T J, US, EU
C6317 0.1/16 C6318 0.1/16 C6319 0.1/16 CKSSYF104Z16-T J, US, EU
Y_G_O(3) Y_G_O(4) Y_G_O(5) Y_G_O(6) Y_G_O(7) GNDI VCCI CB_B_O(0) CB_B_O(1) CB_B_O(2) CB_B_O(3) CB_B_O(4) CB_B_O(5) CB_B_O(6) CB_B_O(7) GNDO VCCO DCLK_O H_O V_O GNDI VCCI DE_O FIELD DH_O DV_O
VCCO GNDO Y_G_O(2) Y_G_O(1) Y_G_O(0) CR_R_O(7) CR_R_O(6) CR_R_O(5) CR_R_O(4) CR_R_O(3) CR_R_O(2) CR_R_O(1) CR_R_O(0) VCCO GNDO VCCI GNDI MA(3) MA(2) MA(1) MA(0) MA(10) MBS MRAS MCAS MWE MDQM GNDO MD_A(0) MD_A(1) MD_A(2) MD_A(3) VCCI GNDI MD_A(4) MD_A(5) MD_A(6) MD_A(7) MD_A(8) VCCO GNDO MD_A(9) MD_A(10) MD_A(11)
MD_A(12) MD_A(13) MD_A(14) MD_A(15) MCLK_O MA(9) GNDI VCCI MA(8) MA(7) MA(6) MA(5) MA(4) GNDI VCCI CLPO CLK4 CLK8 GNDO VCCO DIN(0) DIN(1) DIN(2) DIN(3) DIN(4) DIN(5)
MICHAEL
IC6255 PD0278A J, US, EU
Y/C SEP. CHROMA DEC. SUB
R6329 10K 1/32W RAB4CQ103J-T J, US, EU
R6330 10K 1/32W RAB4CQ103J-T J, US, EU
R6331 10K 1/32W RAB4CQ103J-T J, US, EU
GND_D

A 3/12

A 3/12 MR MAIN BOARD ASSY

(PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)



A 2/12
from MICHAEL MAIN
SYSCLK1S
3.3 V
0 V
27MHz
2-B6
TP6259
RCLK
TP6258
SCLK2_1S
TP6251
V+1V_PLL_1S
TP6254
SIDE A
-2.1V
-0.9 V
7.16MHz
V+3V_PLL_1S
CKSSYF104Z16-T
J, US, EU
C6262
R6263 270
R6262 10
R6264 220
LCYC6R8K2125-T
L6251 6.8
R6265 10
Q6251
HN1A01FU(YGR)-T
R6274 270
R6266 10
C6265 0.1/16
R6272 100
C6272 33P
C6273 68P
R6273 47K
TP6255
TP6256
RCLK
GNDO
VCCO
SCLK2
TESTA0
TESTA1
TESTA2
TESTVB1
TESTVB0
VSSPLL0
VDDPLL0
XIN
PLCAP2
AMPVSS
VSSPLL2
PLSINI2
PLCAP1
C6270 0.1/16
C6271
VDDPLL1
PLSINI1
AMPVDD
VSSPLL1
VSSAA
PLSINO2
VCCAA
REXT2
CBU2
CBU1
REXT1
VSSAA
PLSINO1
VCCAA
AH_O
VSSAA
AB_O
VCCAA
CBU0
REXT0
VSSAA
AG_O
VCCAA
AR_O
VSSAA
VRBO1
VR1I
VRTO1
VCCAA
CIN
VSSAA
ABIAS1
VCCAA
ANATST
ABIAS0
VCCAA
YIN
CVBSIN
VSSAA
VRTO0
VR10
VRBO0
VSSAA
VCCAA
TRST_N
C6276
R6321 100
R6277 2.7K
C6277
C6278
R6288 2.7K
R6322 100
TP6260
C6279 0.1/16
R6279 10
R6280 270
R6281 220
L6252 6.8
R6282 10
Q6252
HN1A01FU(YGR)-T
R6290 270
R6283 10
C6282 0.1/16
R6278 100
C6288 33P
C6289 68P
R6289 47K
C6287 0.1/16
TP6267
TP6264
TP6265
TP6266
V+3V_A_IC1S
R6342 10
R6341 100
Q6253
R6343 270
C6322 0.1/16
R6345 10
R6344 100
R6346 270
Q6254
C6323 0.1/16
R6348 10
R6347 100
R6349 270
Q6255
C6325 0.1/16
2SA1586(YGR)-TLB
EU
R6350 47
R6351 47
R6352 47
5-B1
B_DA_SUB
G_DA_SUB
R_DA_SUB
to AD SUB
for EU
0.70V
Pedestal:0.01V
C6293
C6294
R6291 1.3K
R6323 100
C6296 0.1/16
CKSQYB225K10-T
C6299 0.1/16
C6297 2.2/10
C6300 0.1/16
C6298 0.1/16
V+5V_A_IC1S
DC 4.5V
16MHz LPF
TP6261
C6301 1.0u/6.3V
R6308 470
Q6256
HN1B04FU(YGR)-TRB
R6304 100
L6253 6.8
R6305 270
R6309 330
C6305 33P
C6306 33P
R6310 330
C6304 0.1/16
R6328 100
R6326 10K
R6327 18K
C6324 0.1/16
12-B2
from REG IO
SUB_C
A 12/12
0.6Vp-p
DC4.5V
C6303
R6306 8.2K
C6264 1.0u/6.3V
TP6257
R6307 8.2K
C6308
TP6262
ANATST
1.0Vp-p DC 1.3V
16MHz LPF
DC 3.2V
R6311 470
C6310 0.1/16
R6312 100
Q6257
L6254 6.8
R6314 270
R6313 330
C6312 33P
C6313 33P
R6315 330
C6311 0.1/16
R6338 100
R6336 10K
R6337 18K
C6327 105 47/6.3
CEHVKW470M6R3-TRB
SUB_Y
A 12/12
2.09V
DC5.15V
C6309
C6314 0.1/16
C6315
C6316 0.1/16
DIN(6)
DIN(7)
DIN(8)
DIN(9)
GNDO
VCCO
RESETX
EMG_REQ2
EMG_REQ1
SDA
SCL
AS
OE
TCK
TMS
TDI
TDO
C6320 0.1/16
GND_D
R6316 1K
R6340 1K
NO USE
C6332 1000P
R6325
R6319 100
TP6263
C6295 1.0u/6.3V
R6335 470
R6324 100
Q6258
2SA1586(YGR)-TLB
V+3V_A_IC1S
C6321 105 100/6.3
CEHVKW101M6R3-TRB
GND_A_IC1S
C6331 0.1/16
TRST
TDO_IC1S
TDO_IC2
TMS
TCK
2-D5, 8-C6, 12-C6
2-D5
8-C6
2-D5, 8-B6, 9-A5 12-B6
A 2/12, 8/12, 12/12
A 2/12
A 8/12
A 2/12, 8/12, 9/12, 12/12
R6339 100
1.15Vp-p
DC1.75V
from/to REG IO
for J, US, EU
For JTAG
MAIN_UCOM[1:176]
1-A4, 2-D4, 4-C6 5-C6, 6-C6, 7-A1 8-B6, 9-A6, 10-A6 11-C3, 12-C4, 12-D2 12-B6
from/to MAIN UCOM
A 1/12, 2/12, 4/12-12/12
EMGREQ2_S
EMGREQ1_S
SDA_MA
SCL_MA
IC1S_OE
R6269 0 EUB
for EUB
RESETX1
2-D4, 6-C6, 7-A2 12-B6
from REG IO
A 2/12, 6/12, 7/12, 12/12

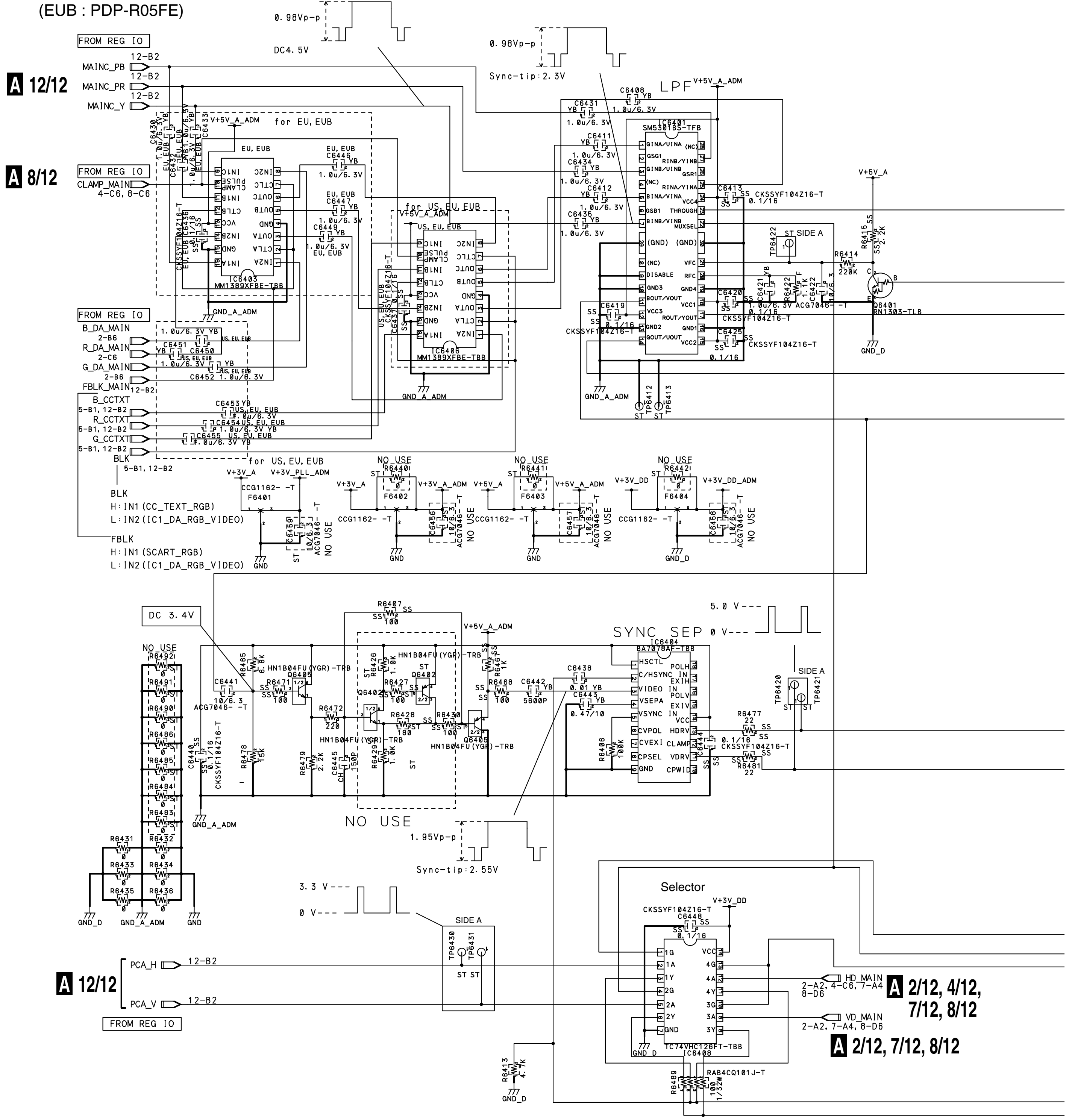
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)

3.6 MR MAIN BOARD ASSY (4/12)

A 4/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

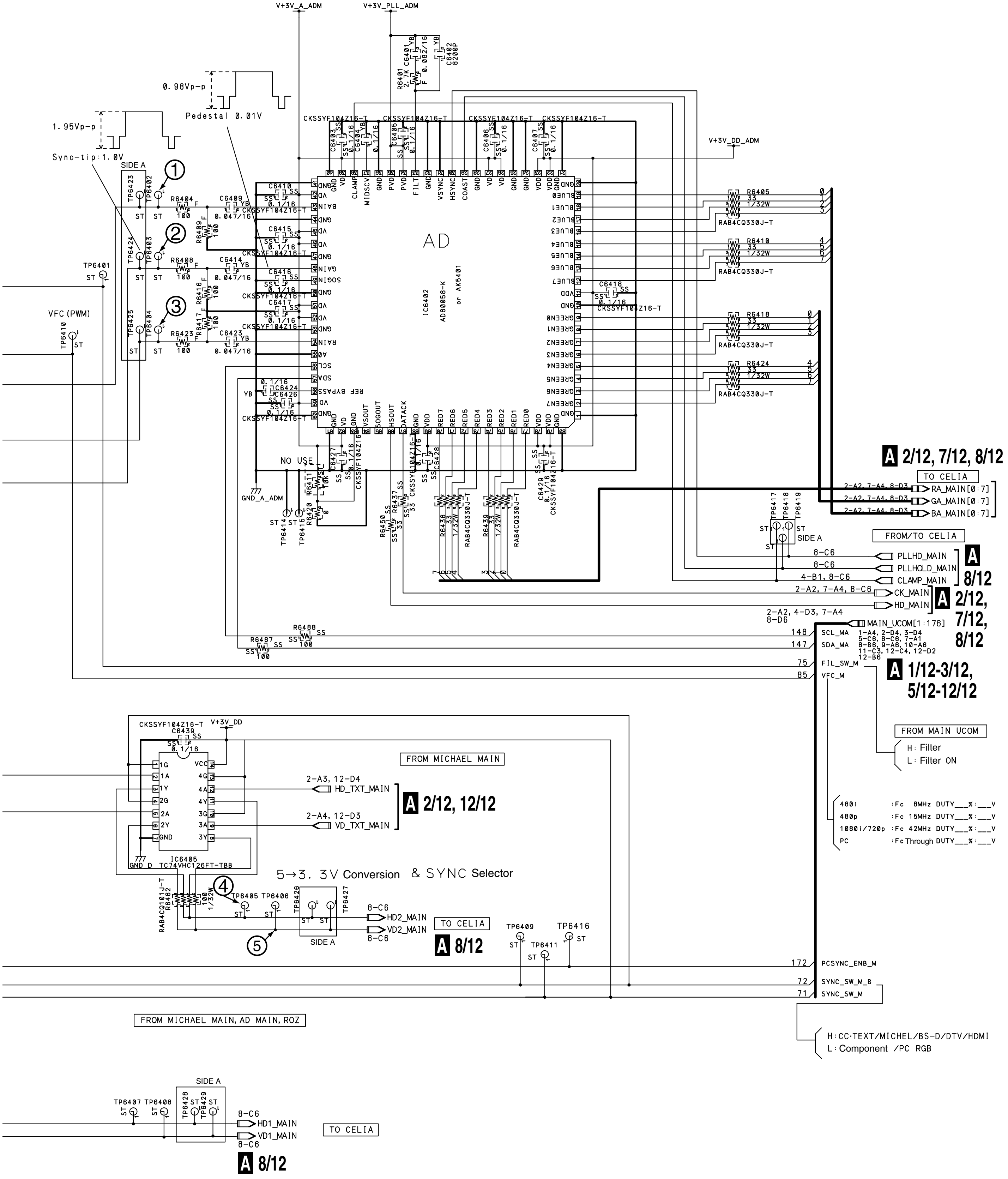
● AD MAIN BLOCK

(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)



0.98Vp-p
DC4.5V
0.98Vp-p
Sync-tip:2.3V
FROM REG IO
A 12/12
MAINC_PB 12-B2
MAINC_PR 12-B2
MAINC_Y 12-B2
A 8/12
FROM REG IO
CLAMP_MAIN 4-C6, 8-C6
for EU, EUB
V+5V_A_ADM
IC6403 MM1389XFBE-TBB
IN1C CTLC CLAMP PULSE OUTC IN1B CTLB OUTB VCC GND IN2B OUTA GND CTLA IN1A IN2A IN2C
C6446 YB 1.0u/6.3V
C6447 YB 1.0u/6.3V
C6449 YB 1.0u/6.3V EU, EUB
for US, EU, EUB
V+5V_A_ADM
IC6406 MM1389XFBE-TBB
GND_A_ADM
LPF
V+5V_A_ADM
C6408 YB 1.0u/6.3V
C6431 YB 1.0u/6.3V
C6411 YB 1.0u/6.3V
C6434 YB 1.0u/6.3V
C6412 YB 1.0u/6.3V
C6435 YB 1.0u/6.3V
IC6401 SM5301BS-TFB
GINA/UINA GSG1 GINB/UINB (NC) BINA/VINA GSB1 BINB/VINB (GND) (NC) DISABLE GND3 BOUT/VOUT VCC3 GND2 GOUT/UOUT
(NC) RINB/YINB GSR1 VCC4 THROUGH MUXSEL (GND) VFC RFC GND4 VCC1 ROUT/YOUT GND1 VCC2
C6413 SS CKSSYF104Z16-T 0.1/16
C6419 SS CKSSYF104Z16-T 0.1/16
C6420 SS 1.0u/6.3V ACG7046-T
C6425 SS CKSSYF104Z16-T 0.1/16
C6421 YB
R6422 1K F
C6432 10/6.3
TP6422 ST SIDE A
R6414 220K
R6415 SS 2.2K
V+5V_A
Q6401 RN1303-TLB
GND_D
GND_A_ADM
TP6412 ST TP6413 ST
FROM REG IO
B_DA_MAIN 2-B6
R_DA_MAIN 2-C6
G_DA_MAIN 2-B6
FBLK_MAIN 12-B2
C6451 YB 1.0u/6.3V US, EU, EUB
C6450 US, EU, EUB
C6452 1.0u/6.3V
B_CCTXT 5-B1, 12-B2
R_CCTXT 5-B1, 12-B2
G_CCTXT 5-B1, 12-B2
BLK 5-B1, 12-B2
C6453 YB US, EU, EUB 1.0u/6.3V
C6454 US, EU, EUB 1.0u/6.3V YB
C6455 US, EU, EUB 1.0u/6.3V YB
for US, EU, EUB
BLK
H: IN1 (CC_TEXT_RGB)
L: IN2 (IC1_DA_RGB_VIDEO)
FBLK
H: IN1 (SCART_RGB)
L: IN2 (IC1_DA_RGB_VIDEO)
V+3V_A V+3V_PLL_ADM
CCG1162- -T F6401
C6459 10/6.3 ACG7046- -T ST NO USE
GND
NO USE R6440 0 ST F6402 V+3V_A V+3V_A_ADM CCG1162- -T
C6456 10/6.3 ACG7046- -T NO USE
GND
NO USE R6441 0 F6403 V+5V_A V+5V_A_ADM CCG1162- -T
C6457 10/6.3 ACG7046- -T NO USE
GND
NO USE R6442 0 ST F6404 V+3V_DD V+3V_DD_ADM CCG1162- -T
C6458 10/6.3 ACG7046- -T NO USE
GND_D
DC 3.4V
NO USE
R6492 0
R6491 0
R6490 0
R6486 0
R6485 0
R6484 0
R6483 0
R6431 0
R6432 0
R6433 0
R6434 0
R6435 0
R6436 0
GND_D GND_A_ADM GND
R6407 SS 100
V+5V_A_ADM
C6441 10/6.3 ACG7046- -T
R6465 6.8K
R6471 SS 100
Q6405 HN1B04FU(YGR)-TRB
R6426 1.0K
HN1B04FU(YGR)-TRB
Q6402 ST
R6427 SS 100
R6472 220
R6428 180
R6430 100
Q6405 HN1B04FU(YGR)-TRB
R6429 1.0K
R6479 2.2K
C6445 CH 150P
C6440 0.1/16 CKSSYF104Z16-T
R6478 15K
GND_A_ADM
NO USE
R6467 1K
R6468 100
C6442 YB 5600P
C6438 0.01 YB
C6443 YB 0.47/10
5.0V
0V
SYNC SEP
IC6404 BA7078AF-TBB
HSCTL C/HSYNC IN VIDEO IN VSEPA VSYNC IN CVPOL CVEXI CPSEL GND
POLH EXIH POLV EXIV VCC HDRV CLAMP VDRV CPWID
R6406 100K
R6477 22 SS
C6444 0.1/16 CKSSYF104Z16-T
R6481 22 SS
SIDE A TP6420 ST TP6421 ST
1.95Vp-p
Sync-tip:2.55V
3.3V
0V
SIDE A TP6430 TP6431 ST ST
A 12/12
PCA_H 12-B2
PCA_V 12-B2
FROM REG IO
Selector
V+3V_DD
CKSSYF104Z16-T C6448 SS 0.1/16
1G 1A 1Y 2G 2A 2Y GND VCC 4G 4A 4Y 3G 3A 3Y
IC6408 TC74VHC126FT-TBB
GND_D
HD_MAIN 2-A2, 4-C6, 7-A4, 8-D6
A 2/12, 4/12, 7/12, 8/12
VD_MAIN 2-A2, 7-A4, 8-D6
A 2/12, 7/12, 8/12
R6413 4.7K GND_D
R6489 100 1/32W RAB4CQ101J-T

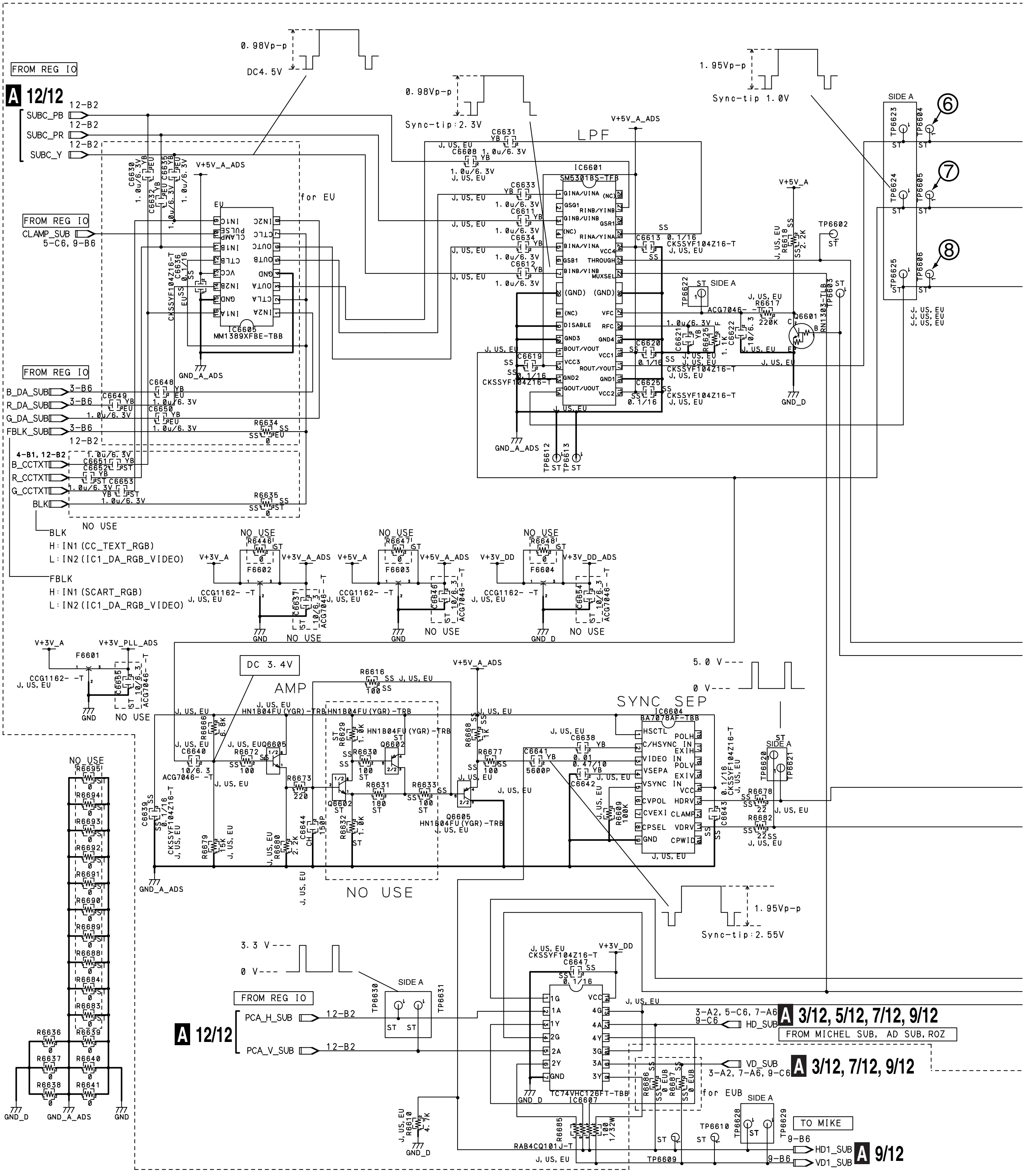
A 4/12


V+3V_A_ADM
V+3V_PLL_ADM
V+3V_DD_ADM
0.98Vp-p
Pedestal 0.01V
1.95Vp-p
Sync-tip:1.0V
SIDE A
TP6423
TP6402
TP6424
TP6403
TP6425
TP6404
TP6401
TP6410
VFC(PWM)
①
②
③
R6404 100 F
R6408 100 F
R6423 100 F
R6409 100
R6416 100
R6417 100
C6409 YB 0.047/16
C6414 YB 0.047/16
C6423 YB 0.047/16
C6410 SS 0.1/16
C6415 SS 0.1/16
C6416 SS 0.1/16
C6417 SS 0.1/16
C6424
C6426
CKSSYF104Z16-T
R6401 2.7K F
C6401 YB 0.082/16
C6402 YB 8200P
C6403
C6404
C6405
C6406
C6407
C6418
AD
IC6402
AD80058-K
or AK5401
GND
VD
CLAMP
MIDSCV
PVD
FILT
VSYNC
HSYNC
COAST
VDD
BAIN
GAIN
SOGIN
RAIN
A0
SCL
SDA
REF BYPASS
SOGOUT
VSOUT
HSOUT
DATACK
RED0
RED1
RED2
RED3
RED4
RED5
RED6
RED7
BLUE0
BLUE1
BLUE2
BLUE3
BLUE4
BLUE5
BLUE6
BLUE7
GREEN0
GREEN1
GREEN2
GREEN3
GREEN4
GREEN5
GREEN6
GREEN7
R6405 33 1/32W RAB4CQ330J-T
R6410 33 1/32W RAB4CQ330J-T
R6418 33 1/32W RAB4CQ330J-T
R6424 33 1/32W RAB4CQ330J-T
R6438 33 1/32W RAB4CQ330J-T
R6439 33 1/32W RAB4CQ330J-T
NO USE
GND_A_ADM
C6427
C6428
C6429
R6411 10K
R6420 0
R6437 33
R6450 33
TP6414
TP6415
TP6417
TP6418
TP6419
ST
A 2/12, 7/12, 8/12
TO CELIA
2-A2, 7-A4, 8-D3
RA_MAIN[0:7]
GA_MAIN[0:7]
BA_MAIN[0:7]
FROM/TO CELIA
8-C6
PLLHD_MAIN
PLLHOLD_MAIN
4-B1, 8-C6
CLAMP_MAIN
A 8/12
2-A2, 7-A4, 8-C6
CK_MAIN
HD_MAIN
A 2/12, 7/12, 8/12
2-A2, 4-D3, 7-A4
8-D6
MAIN_UCOM[1:176]
R6488 100 SS
R6487 100 SS
148 SCL_MA
147 SDA_MA
75 FIL_SW_M
85 VFC_M
1-A4, 2-D4, 3-D4
5-C6, 6-C6, 7-A1
8-B6, 9-A6, 10-A6
11-C3, 12-C4, 12-D2
12-B6
A 1/12-3/12, 5/12-12/12
FROM MAIN UCOM
H: Filter
L: Filter ON
480i :Fc 8MHz DUTY___%:___V
480p :Fc 15MHz DUTY___%:___V
1080i/720p :Fc 42MHz DUTY___%:___V
PC :Fc Through DUTY___%:___V
CKSSYF104Z16-T
C6439 SS 0.1/16
V+3V_DD
1G
1A
1Y
2G
2A
2Y
GND
VCC
4G
4A
4Y
3G
3A
3Y
IC6405
TC74VHC126FT-TBB
GND_D
FROM MICHAEL MAIN
2-A3, 12-D4
HD_TXT_MAIN
2-A4, 12-D3
VD_TXT_MAIN
A 2/12, 12/12
5→3. 3V Conversion & SYNC Selector
RAB4CQ101J-T
R6482 100 1/32W
④
⑤
TP6405
TP6406
TP6426
TP6427
8-C6
HD2_MAIN
VD2_MAIN
TO CELIA
A 8/12
TP6409
TP6411
TP6416
172 PCSYNC_ENB_M
72 SYNC_SW_M_B
71 SYNC_SW_M
FROM MICHAEL MAIN, AD MAIN, ROZ
H:CC·TEXT/MICHEL/BS-D/DTV/HDMI
L:Component /PC RGB
TP6407
TP6408
TP6428
TP6429
HD1_MAIN
VD1_MAIN
TO CELIA
A 8/12

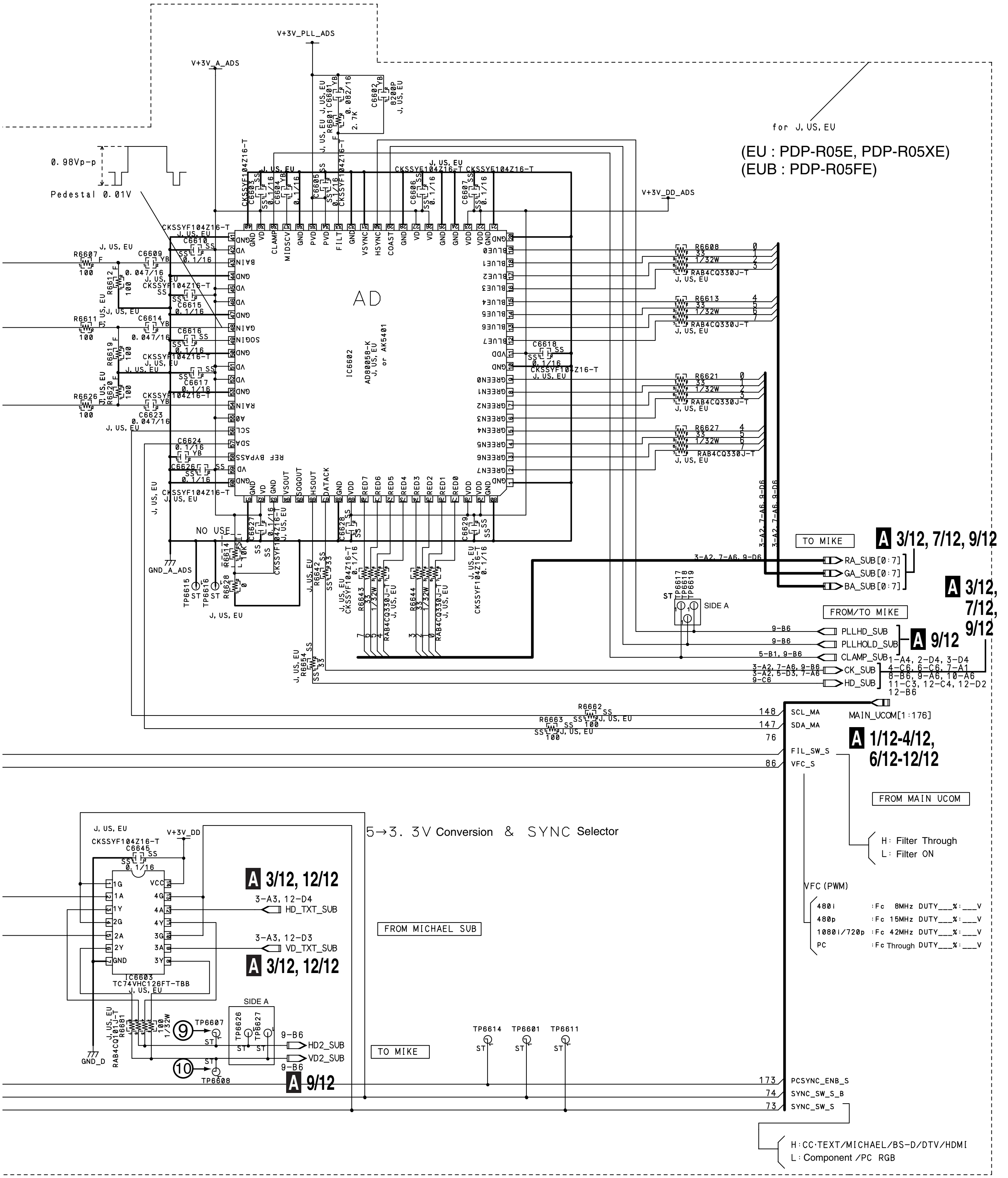
A 4/12

3.7 MR MAIN BOARD ASSY (5/12)

A 5/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944)
● **AD SUB BLOCK** (PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)


FROM REG IO
A 12/12
SUBC_PB
SUBC_PR
SUBC_Y
12-B2
0.98Vp-p
DC4.5V
0.98Vp-p
Sync-tip:2.3V
1.95Vp-p
Sync-tip 1.0V
LPF
V+5V_A_ADS
IC6601
SM5301BS-TFB
IC6605
MM1389XFBE-TBB
for EU
CLAMP_SUB
5-C6, 9-B6
B_DA_SUB
R_DA_SUB
G_DA_SUB
FBLK_SUB
3-B6
B_CCTXT
R_CCTXT
G_CCTXT
BLK
4-B1, 12-B2
NO USE
BLK
H:IN1(CC_TEXT_RGB)
L:IN2(IC1_DA_RGB_VIDEO)
FBLK
H:IN1(SCART_RGB)
L:IN2(IC1_DA_RGB_VIDEO)
GND_A_ADS
SIDE A
TP6623
TP6604
TP6624
TP6605
TP6625
TP6606
⑥
⑦
⑧
V+5V_A
TP6602
Q6601
RN1303-T1B
ACG7046--T
R6617
220K
GND_D
V+3V_A
V+3V_A_ADS
V+5V_A
V+5V_A_ADS
V+3V_DD
V+3V_DD_ADS
F6602
F6603
F6604
CCG1162--T
V+3V_PLL_ADS
F6601
DC 3.4V
AMP
HN1B04FU(YGR)-TRB
Q6605
Q6602
NO USE
SYNC SEP
IC6604
BA7078AF-TBB
5.0 V
0 V
1.95Vp-p
Sync-tip:2.55V
3.3 V
0 V
FROM REG IO
A 12/12
PCA_H_SUB
PCA_V_SUB
12-B2
SIDE A
TP6630
TP6631
IC6607
TC74VHC126FT-TBB
V+3V_DD
CKSSYF104Z16-T
C6647
HD_SUB
3-A2, 5-C6, 7-A6, 9-C6
A 3/12, 5/12, 7/12, 9/12
FROM MICHEL SUB, AD SUB, ROZ
VD_SUB
3-A2, 7-A6, 9-C6
A 3/12, 7/12, 9/12
for EUB
TO MIKE
9-B6
HD1_SUB
VD1_SUB
A 9/12
TP6609
TP6610
TP6628
TP6629
RAB4CQ101J-T
R6685
GND_D
GND_A_ADS
GND

A 5/12

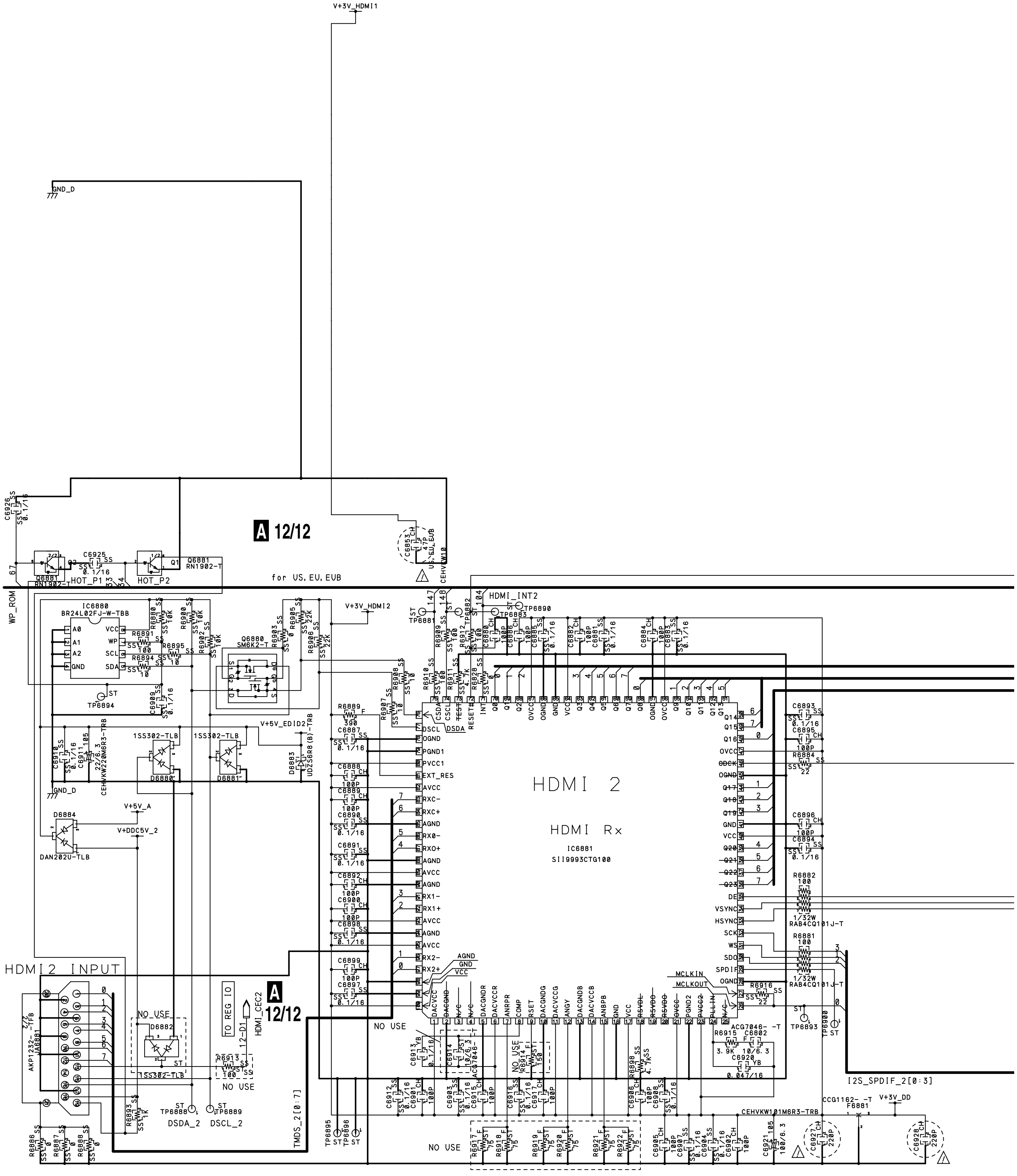

A
B
C
D
E
V+3V_PLL_ADS
V+3V_A_ADS
V+3V_DD_ADS
for J, US, EU
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)
0.98Vp-p
Pedestal 0.01V
AD
IC6602
AD80058-K
J, US, EU
or AK5401
C6601 0.082/16
R6601 2.7K
C6602 8200P
C6603
C6604
C6605
C6606
C6607
C6608
C6609 0.047/16
C6610 0.1/16
C6614 0.047/16
C6615 0.1/16
C6616
C6617 0.1/16
C6618 0.1/16
C6623 0.047/16
C6624 0.1/16
C6626 0.1/16
C6627 0.1/16
C6628 0.1/16
C6629 0.1/16
CKSSYF104Z16-T
R6607 100
R6611 100
R6612 100
R6619 100
R6620 100
R6626 100
R6614 10K
R6628 0
R6608 33 1/32W RAB4CQ330J-T
R6613 33 1/32W RAB4CQ330J-T
R6621 33 1/32W RAB4CQ330J-T
R6627 33 1/32W RAB4CQ330J-T
R6642 33
R6643 33 1/32W RAB4CQ330J-T
R6644 33 1/32W RAB4CQ330J-T
R6664 33
R6662 100
R6663 100
GND
VD
BAIN
GAIN
SOGIN
RAIN
A0
SCL
SDA
REF BYPASS
CLAMP
MIDSCV
PVD
FILT
VSYNC
HSYNC
COAST
VDD
BLUE0
BLUE1
BLUE2
BLUE3
BLUE4
BLUE5
BLUE6
BLUE7
GREEN0
GREEN1
GREEN2
GREEN3
GREEN4
GREEN5
GREEN6
GREEN7
VSOUT
SOGOUT
HSOUT
DATACK
RED0
RED1
RED2
RED3
RED4
RED5
RED6
RED7
NO USE
GND_A_ADS
TP6615
TP6616
TP6617
TP6618
TP6619
SIDE A
TO MIKE
A 3/12, 7/12, 9/12
RA_SUB[0:7]
GA_SUB[0:7]
BA_SUB[0:7]
3-A2, 7-A6, 9-D6
A 3/12, 7/12, 9/12
FROM/TO MIKE
PLLHD_SUB
PLLHOLD_SUB
CLAMP_SUB
CK_SUB
HD_SUB
A 9/12
9-B6
5-B1, 9-B6
3-A2, 7-A6, 9-B6
3-A2, 5-D3, 7-A6
9-C6
1-A4, 2-D4, 3-D4
4-C6, 6-C6, 7-A1
8-B6, 9-A6, 10-A6
11-C3, 12-C4, 12-D2
12-B6
148 SCL_MA
147 SDA_MA
76 FIL_SW_S
86 VFC_S
MAIN_UCOM[1:176]
A 1/12-4/12, 6/12-12/12
FROM MAIN UCOM
H: Filter Through
L: Filter ON
VFC (PWM)
480i :Fc 8MHz DUTY___%:___V
480p :Fc 15MHz DUTY___%:___V
1080i/720p :Fc 42MHz DUTY___%:___V
PC :Fc Through DUTY___%:___V
5→3.3V Conversion & SYNC Selector
V+3V_DD
C6645 0.1/16
1G 1A 1Y 2G 2A 2Y GND
VCC 4G 4A 4Y 3G 3A 3Y
IC6603
TC74VHC126FT-TBB
J, US, EU
A 3/12, 12/12
3-A3, 12-D4
HD_TXT_SUB
3-A3, 12-D3
VD_TXT_SUB
A 3/12, 12/12
FROM MICHAEL SUB
R6681 RAB4CQ101J-T 100 1/32W
GND_D
⑨ TP6607
⑩ TP6608
TP6626
TP6627
HD2_SUB
VD2_SUB
A 9/12
TO MIKE
TP6614
TP6601
TP6611
ST
173 PCSYNC_ENB_S
74 SYNC_SW_S_B
73 SYNC_SW_S
H: CC·TEXT/MICHAEL/BS-D/DTV/HDMI
L: Component /PC RGB

A 5/12

3.8 MR MAIN BOARD ASSY (6/12)

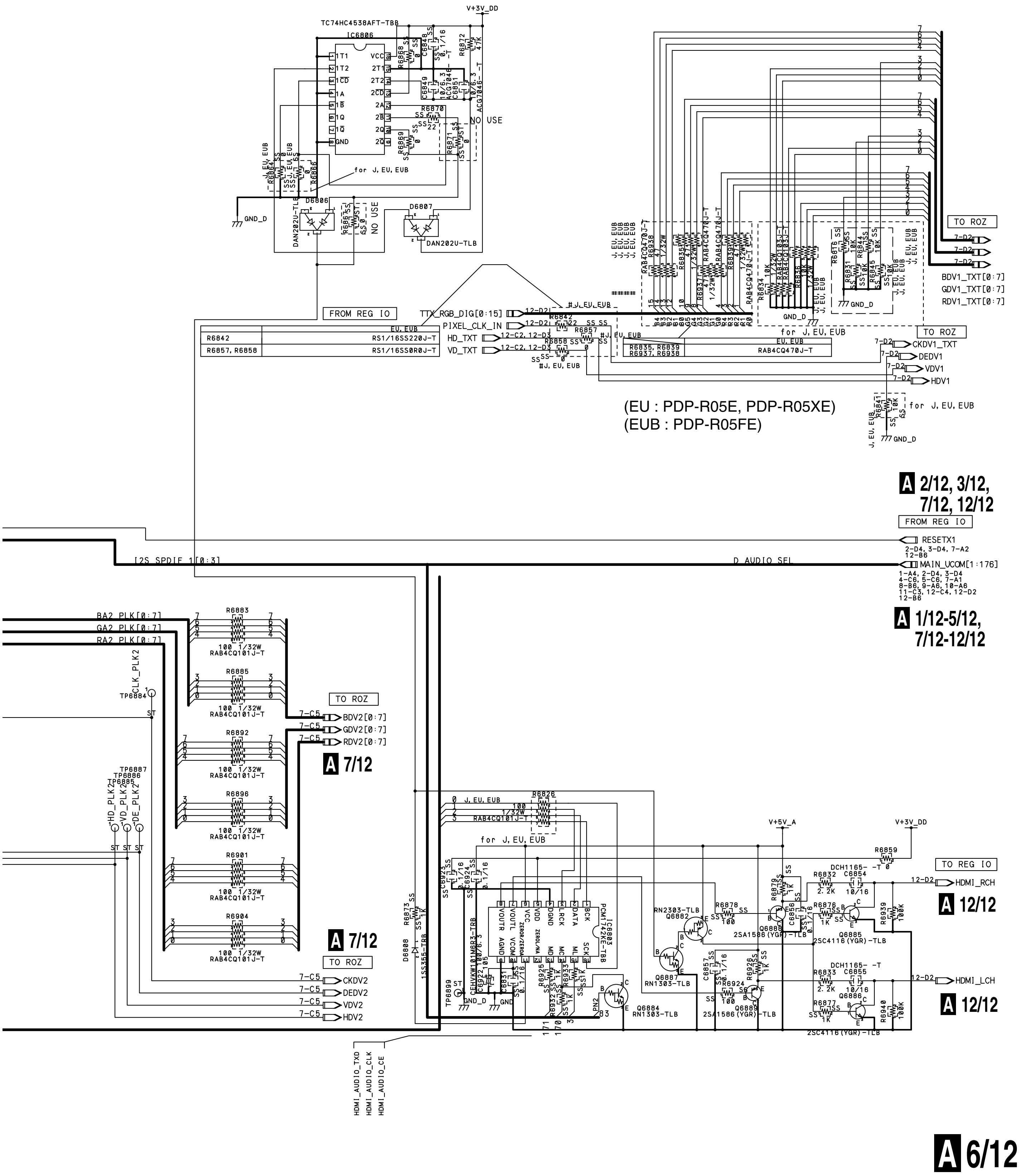
A 6/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● HDMI RX BLOCK



V+3V_HDMI1
GND_D
A 12/12
for US, EU, EUB
C6926 SS 0.1/16
C6925 SS 0.1/16
Q6881 RN1902-T
HOT_P1
HOT_P2
C6853 CH 47P US, EU, EUB
CEHVKW10
WP_ROM
IC6880 BR24L02FJ-W-TBB
A0 A1 A2 GND VCC WP SCL SDA
R6891 100
R6895 10
R6894 10
R6880 10K
R6900 10K
R6902 10K
Q6880 SM6K2-T
R6903 0
R6905 22K
R6906 22K
V+3V_HDMI2
TP6894
C6909 SS 0.1/16
TP6881
R6909 100
TP6882
HDMI_INT2
TP6883
TP6890
C6880 C6886 C6885 C6882 C6881 C6884 C6883
R6910 10
R6911 4.7K
R6820 10
R6908 10
R6907 10
R6889 F 390
V+5V_EDID2-TRB
C6910 SS 0.1/16
C6911 105 22/6.3
CEHVKW220M6R3-TRB
1SS302-TLB
D6880
D6881
D6883 UDZS6R8(B)-TRB
GND_D
V+5V_A
V+DDC5V_2
D6884
DAN202U-TLB
C6887 C6888 C6889 C6890 C6891 C6892 C6900 C6898 C6899 C6897
CSDA CSCL TEST RESET INT DSCL DSDA OGND PGND1 PVCC1 EXT_RES AVCC RXC- RXC+ AGND RX0- RX0+ RX1- RX1+ RX2- RX2+
HDMI 2
HDMI Rx
IC6881
SII9993CTG100
Q14 Q15 Q16 OVCC ODCK OGND Q17 Q18 Q19 GND VCC Q20 Q21 Q22 Q23 DE VSYNC HSYNC SCK WS SDO SPDIF OGND
C6893 SS 0.1/16
C6895 CH 100P
R6884 22
C6896 CH 100P
C6894 SS 0.1/16
R6882 100 1/32W RAB4CQ101J-T
R6881 100 1/32W RAB4CQ101J-T
MCLKIN MCLKOUT
R6916 22
ACG7046- -T
R6915 3.9K
C6602 F 10/6.3
C6920 YB 0.047/16
TP6893
TP6900
[2S_SPDIF_2[0:3]
CCG1162- -T
F6881
V+3V_DD
CEHVKW101M6R3-TRB
HDMI2 INPUT
AKP1232- -TFB
J6881
NO USE
D6882
1SS302-TLB
R6913 100
TO REG IO
HDMI_CEC2
12-D1
A 12/12
R6893 1K
TP6888
TP6889
DSDA_2
DSCL_2
TMDS_2[0:7]
R6886 R6887 R6888
TP6895 TP6896
AGND GND VCC
DACVCC DACGND N/C DACGNDR DACVCCR ANRPR COMP RSET DACGNDG DACVCCG ANGY DACGNDB DACVCCB ANBPB GND VCC PGND2 PVCC2 PLLIN
C6913 YB 0.1/16
C6914 ACG7046- -T
R6914 150
R6898 4.7K
C6912 C6901 C6903 C6915 C6916 C6917 C6906 C6908
R6917 R6918 R6919 R6920 R6921 R6922 75
C6905 C6907 C6904 C6902
C6921 105 100/6.3
C6927 CH 220P
C6928 CH 220P

A 6/12

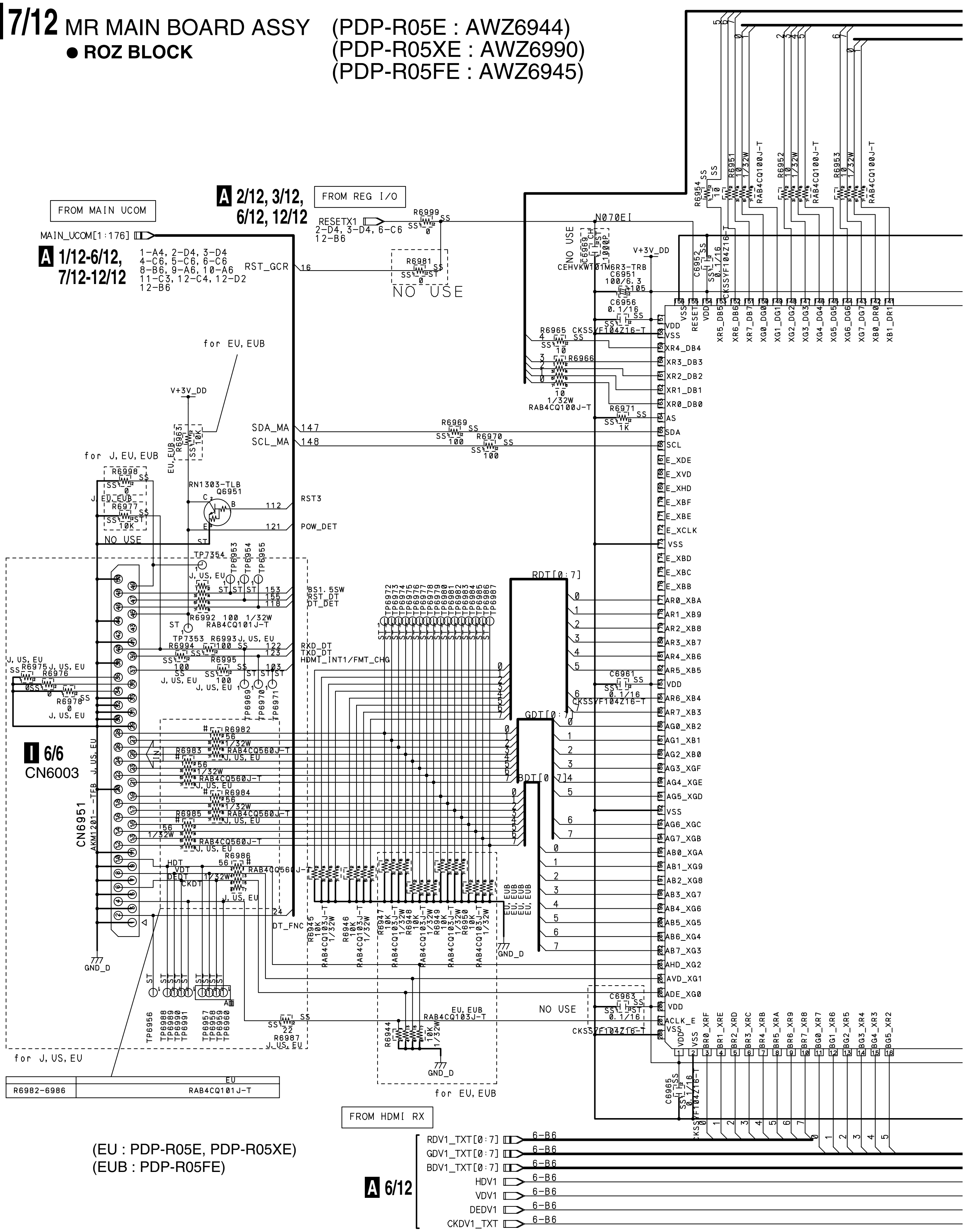

TC74HC4538AFT-TBB
IC6806
V+3V_DD
1T1
1T2
1CD
1A
1B
1Q
1Q
GND
VCC
2T1
2T2
2CD
2A
2B
2Q
2Q
R6868
C6848
C6849
C6851
R6872
ACG7046-T
R6870
R6869
R6871
NO USE
for J,EU,EUB
R6864
R6866
D6806
DAN202U-TLB
R6867
NO USE
D6807
DAN202U-TLB
GND_D
FROM REG IO
TTX_RGB_DIG[0:15]
PIXEL_CLK_IN
HD_TXT
VD_TXT
12-D2
12-C2,12-D3
R6842
R6857
R6858
#J,EU,EUB
EU,EUB
R6842 RS1/16SS220J-T
R6857,R6858 RS1/16SS0R0J-T
RAB4CQ470J-T
R6835,R6839
R6937,R6938
RAB4CQ103J-T
R6834
R6836
R6831
R6844
R6845
R6876
for J,EU,EUB
TO ROZ
7-D2
BDV1_TXT[0:7]
GDV1_TXT[0:7]
RDV1_TXT[0:7]
CKDV1_TXT
DEDV1
VDV1
HDV1
R6841
GND_D
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)
A 2/12, 3/12, 7/12, 12/12
FROM REG IO
RESETX1
2-D4, 3-D4, 7-A2 12-B6
MAIN_UCOM[1:176]
1-A4, 2-D4, 3-D4 4-C6, 5-C6, 7-A1 8-B6, 9-A6, 10-A6 11-C3, 12-C4, 12-D2 12-B6
A 1/12-5/12, 7/12-12/12
I2S_SPDIF_1[0:3]
D_AUDIO_SEL
BA2_PLK[0:7]
GA2_PLK[0:7]
RA2_PLK[0:7]
R6883
R6885
R6892
R6896
R6901
R6904
100 1/32W
RAB4CQ101J-T
CLK_PLK2
TP6884
TO ROZ
7-C5
BDV2[0:7]
GDV2[0:7]
RDV2[0:7]
A 7/12
TP6887
TP6886
TP6885
HD_PLK2
VD_PLK2
DE_PLK2
A 7/12
TO ROZ
CKDV2
DEDV2
VDV2
HDV2
R6826
RAB4CQ101J-T
for J,EU,EUB
C6923
C6924
R6873
D6808
1SS355-TRB
TP6899
C6922
CEHVKW101M6R3-TRB
C6831
R6925
R6932
R6933
IC6803
PCM1742KE-TBB
VOUTR VOUTL VCC VDD DGND LRCK DATA BCK AGND VCOM ZERO ZERO MD MC ML SCK
PN2
Q6884
RN1303-TLB
Q6887
RN1303-TLB
Q6882
RN2303-TLB
R6878
C6857
R6924
Q6889
2SA1586(YGR)-TLB
R6879
C6856
Q6888
2SA1586(YGR)-TLB
V+5V_A
V+3V_DD
R6859
DCH1165-T
R6832
C6854
R6876
Q6885
2SC4116(YGR)-TLB
R6939
R6833
C6855
R6877
Q6886
2SC4116(YGR)-TLB
R6940
TO REG IO
12-D2
HDMI_RCH
HDMI_LCH
A 12/12
A 12/12
HDMI_AUDIO_TXD
HDMI_AUDIO_CLK
HDMI_AUDIO_CE
GND_D

A 6/12

3.9 MR MAIN BOARD ASSY (7/12)

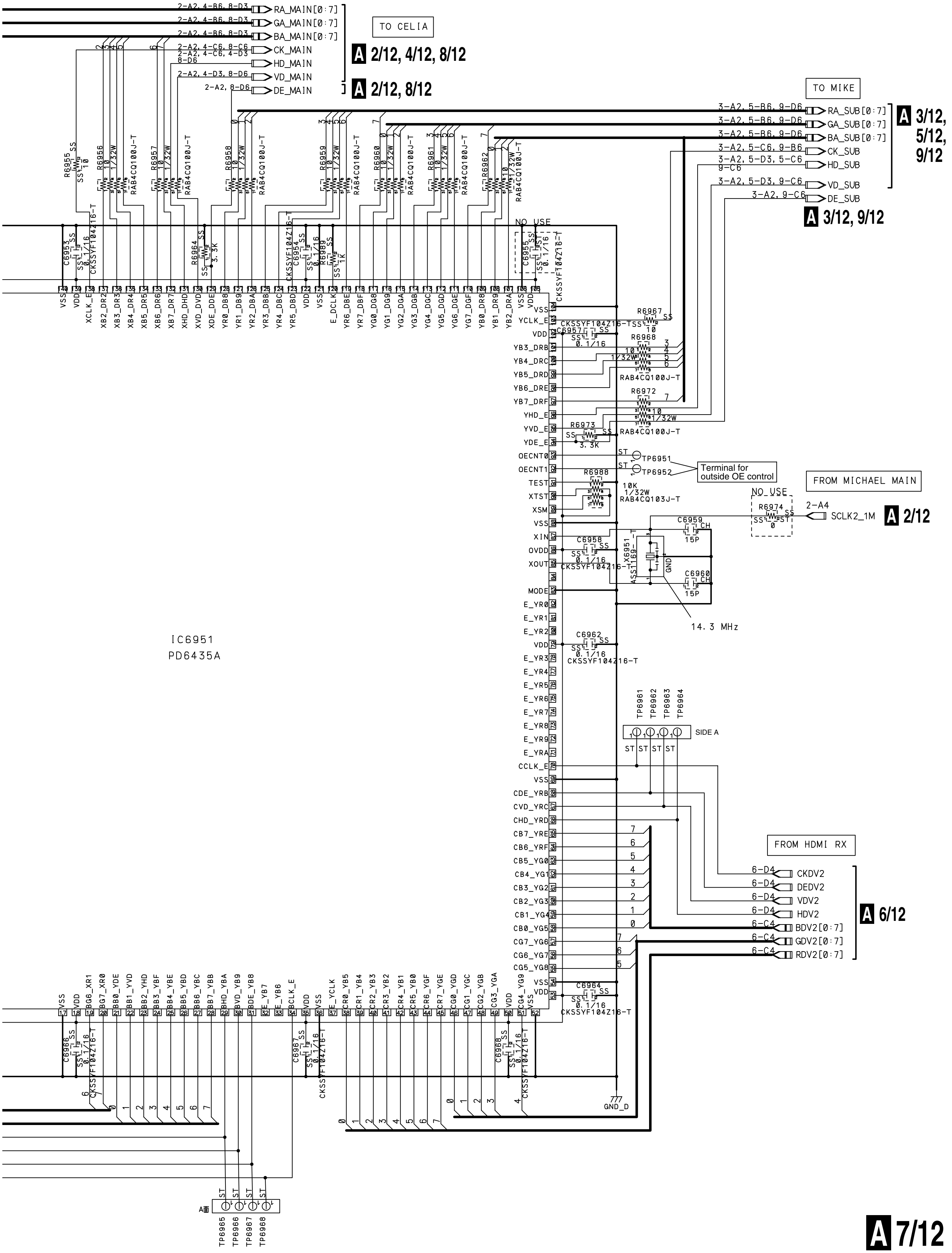
A 7/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● **ROZ BLOCK**


FROM MAIN UCOM
MAIN_UCOM[1:176]
A 1/12-6/12, 7/12-12/12
1-A4, 2-D4, 3-D4
4-C6, 5-C6, 6-C6
8-B6, 9-A6, 10-A6
11-C3, 12-C4, 12-D2
12-B6
RST_GCR 16
A 2/12, 3/12, 6/12, 12/12
FROM REG I/O
RESETX1
2-D4, 3-D4, 6-C6
12-B6
R6999
R6981
NO USE
for EU, EUB
V+3V_DD
R6963
SDA_MA 147
SCL_MA 148
R6969
R6970
for J, EU, EUB
R6990
R6977
RN1303-TLB
Q6951
RST3 112
POW_DET 121
TP7354
TP6953
TP6954
TP6955
BS1.5SW 153
RST_DT 155
DT_DET 118
R6992 100 1/32W
RAB4CQ101J-T
TP7353
R6993
R6994
R6995
RXD_DT 122
TXD_DT 123
HDMI_INT1/FMT_CHG 103
R6975
R6976
R6978
TP6969
TP6970
TP6971
I 6/6
CN6003
CN6951
AKM1201- -TFB
R6982
R6983
R6984
R6985
R6986
RAB4CQ560J-T
HDT
VDT
DEDT
CKDT
DT_FNC 24
TP6972–TP6987
R6945
R6946
R6947
R6948
R6949
R6950
RAB4CQ103J-T
R6944
GND_D
TP6956
TP6988
TP6989
TP6990
TP6991
TP6957
TP6958
TP6959
TP6960
R6987
for J, US, EU
R6982-6986 EU RAB4CQ101J-T
for EU, EUB
FROM HDMI RX
A 6/12
RDV1_TXT[0:7] 6-B6
GDV1_TXT[0:7] 6-B6
BDV1_TXT[0:7] 6-B6
HDV1 6-B6
VDV1 6-B6
DEDV1 6-B6
CKDV1_TXT 6-B6
RDT[0:7]
GDT[0:7]
BDT[0:7]
N070EI
C6969
CEHVKW101M6R3-TRB
C6951 100/6.3
C6952
C6956
C6961
C6963
C6965
CKSSYF104Z16-T
R6954
R6951
R6952
R6953
R6965
R6966
R6971
RAB4CQ100J-T
VSS
RESET
VDD
XR5_DB5
XR6_DB6
XR7_DB7
XG0_DG0
XG1_DG1
XG2_DG2
XG3_DG3
XG4_DG4
XG5_DG5
XG6_DG6
XG7_DG7
XB0_DR0
XB1_DR1
XR4_DB4
XR3_DB3
XR2_DB2
XR1_DB1
XR0_DB0
AS
SDA
SCL
E_XDE
E_XVD
E_XHD
E_XBF
E_XBE
E_XCLK
E_XBD
E_XBC
E_XBB
AR0_XBA
AR1_XB9
AR2_XB8
AR3_XB7
AR4_XB6
AR5_XB5
AR6_XB4
AR7_XB3
AG0_XB2
AG1_XB1
AG2_XB0
AG3_XGF
AG4_XGE
AG5_XGD
AG6_XGC
AG7_XGB
AB0_XGA
AB1_XG9
AB2_XG8
AB3_XG7
AB4_XG6
AB5_XG5
AB6_XG4
AB7_XG3
AHD_XG2
AVD_XG1
ADE_XG0
ACLK_E
BR0_XRF
BR1_XRE
BR2_XRD
BR3_XRC
BR4_XRB
BR5_XRA
BR6_XR9
BR7_XR8
BG0_XR7
BG1_XR6
BG2_XR5
BG3_XR4
BG4_XR3
BG5_XR2

(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)

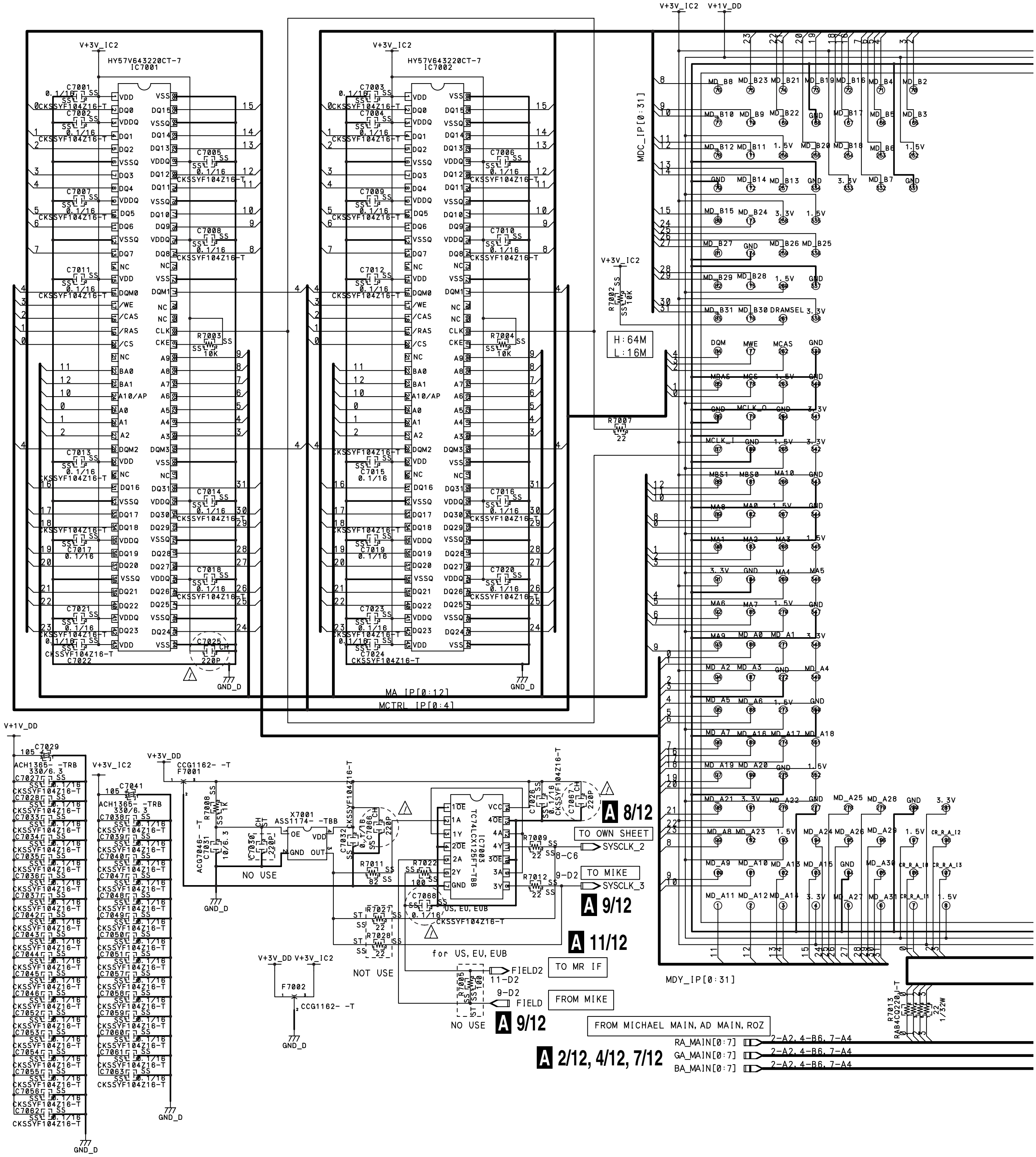
A 7/12


RA_MAIN[0:7]
GA_MAIN[0:7]
BA_MAIN[0:7]
CK_MAIN
HD_MAIN
VD_MAIN
DE_MAIN
TO CELIA
A 2/12, 4/12, 8/12
A 2/12, 8/12
TO MIKE
RA_SUB[0:7]
GA_SUB[0:7]
BA_SUB[0:7]
CK_SUB
HD_SUB
VD_SUB
DE_SUB
A 3/12, 5/12, 9/12
A 3/12, 9/12
R6955
R6956
R6957
R6958
R6959
R6960
R6961
R6962
RAB4CQ100J-T
C6953
C6954
C6955
NO USE
CKSSYF104Z16-T
R6964
R6989
R6967
R6968
R6972
R6973
R6988
RAB4CQ103J-T
TP6951
TP6952
Terminal for outside OE control
FROM MICHAEL MAIN
NO USE
R6974
2-A4
SCLK2_1M
A 2/12
C6957
C6958
C6959
C6960
X6951
ASS1169-T
14.3 MHz
C6962
IC6951
PD6435A
TP6961
TP6962
TP6963
TP6964
SIDE A
FROM HDMI RX
CKDV2
DEDV2
VDV2
HDV2
BDV2[0:7]
GDV2[0:7]
RDV2[0:7]
A 6/12
C6964
C6966
C6967
C6968
GND_D
TP6965
TP6966
TP6967
TP6968
A面

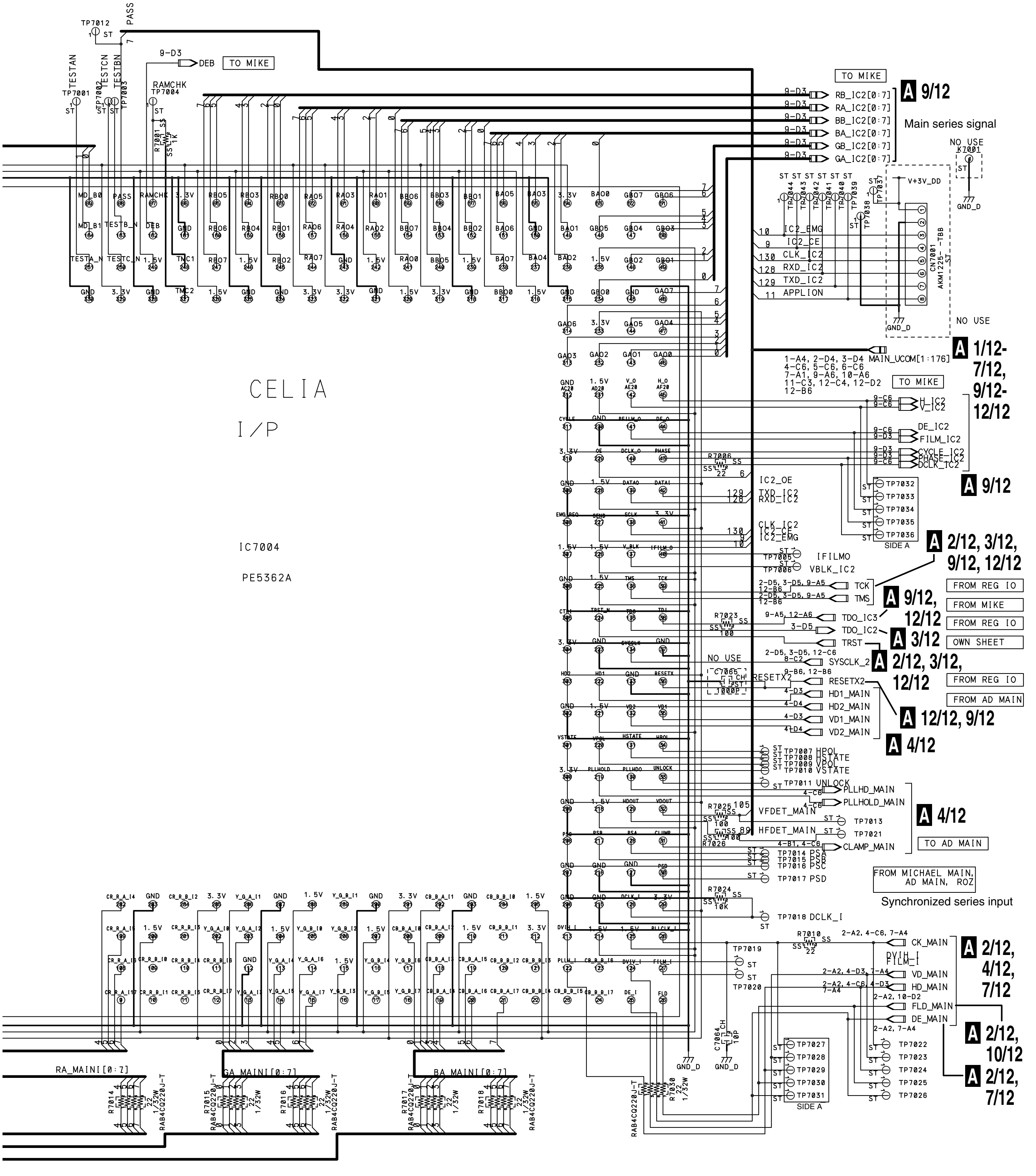
3.10 MR MAIN BOARD ASSY (8/12)

A 8/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● **CELIA BLOCK**


V+3V_IC2
HY57V643220CT-7
IC7001
IC7002
V+1V_DD
MDC_IP[0:31]
MDY_IP[0:31]
MA_IP[0:12]
MCTRL_IP[0:4]
H:64M
L:16M
R7002
R7003
R7004
R7007
GND_D
C7029
ACH1365- -TRB
330/6.3
C7041
CCG1162- -T
F7001
F7002
X7001
ASS1174- -TBB
ACG7046- -T
C7031
10/6.3
NO USE
NOT USE
IC7003
TC74LCX125FT-TB8
R7009
R7011
R7012
R7022
R7027
R7028
R7005
C7068
US, EU, EUB
for US, EU, EUB
TO OWN SHEET
SYSCLK_2
8-C6
TO MIKE
SYSCLK_3
9-D2
A 8/12
A 9/12
A 11/12
FIELD2
11-D2
TO MR IF
FIELD
FROM MIKE
A 9/12
FROM MICHAEL MAIN, AD MAIN, ROZ
RA_MAIN[0:7]
GA_MAIN[0:7]
BA_MAIN[0:7]
2-A2, 4-B6, 7-A4
A 2/12, 4/12, 7/12
R7013
RAB4CQ220J-T
1/32W
CKSSYF104Z16-T
0.1/16
DRAMSEL
MCLK_O
MCLK_I
A
B
C
D
E
F

A 8/12

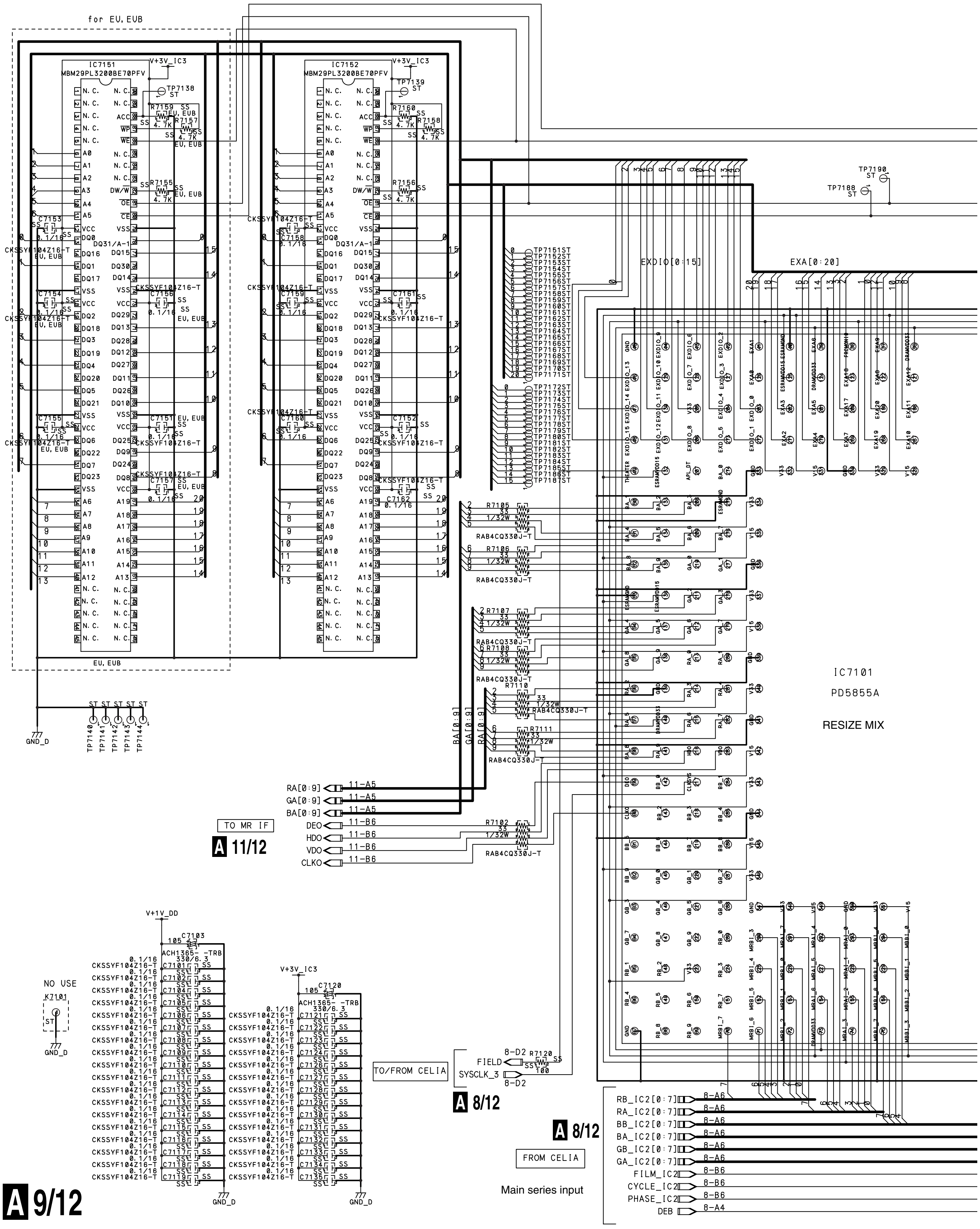

CELIA
I/P
IC7004
PE5362A
TP7012
PASS
TESTAN
TESTCN
TESTBN
TP7001
TP7002
TP7003
RAMCHK
TP7004
9-D3
DEB
TO MIKE
R7001 1K
TO MIKE
RB_IC2[0:7]
RA_IC2[0:7]
BB_IC2[0:7]
BA_IC2[0:7]
GB_IC2[0:7]
GA_IC2[0:7]
A 9/12
Main series signal
NO USE
K7001
GND_D
V+3V_DD
CN7001
AKM1225-TBB
NO USE
IC2_EMG
IC2_CE
CLK_IC2
RXD_IC2
TXD_IC2
APPLION
TP7044
TP7043
TP7042
TP7041
TP7040
TP7039
TP7038
TP7037
MAIN_UCOM[1:176]
1-A4, 2-D4, 3-D4
4-C6, 5-C6, 6-C6
7-A1, 9-A6, 10-A6
11-C3, 12-C4, 12-D2
12-B6
A 1/12-7/12, 9/12-12/12
TO MIKE
V_IC2
V_IC2
DE_IC2
FILM_IC2
CYCLE_IC2
PHASE_IC2
DCLK_IC2
A 9/12
R7006 22
IC2_OE
TXD_IC2
RXD_IC2
CLK_IC2
IC2_CE
IC2_EMG
TP7032
TP7033
TP7034
TP7035
TP7036
SIDE A
A 2/12, 3/12, 9/12, 12/12
TP7005
TP7006
IFILMO
VBLK_IC2
TCK
TMS
A 9/12, 12/12
FROM REG IO
FROM MIKE
FROM REG IO
OWN SHEET
R7023 100
TDO_IC3
TDO_IC2
TRST
A 3/12
SYSCLK_2
A 2/12, 3/12, 12/12
NO USE
C7065 1000P
RESETX2
RESETX2
HD1_MAIN
HD2_MAIN
VD1_MAIN
VD2_MAIN
FROM REG IO
FROM AD MAIN
A 12/12, 9/12
A 4/12
TP7007 HPOL
TP7008 HSTATE
TP7009 VPOL
TP7010 VSTATE
TP7011 UNLOCK
PLLHD_MAIN
PLLHOLD_MAIN
R7025 100
VFDET_MAIN
HFDET_MAIN
R7026 100
TP7013
TP7021
CLAMP_MAIN
A 4/12
TO AD MAIN
TP7014 PSA
TP7015 PSB
TP7016 PSC
TP7017 PSD
FROM MICHAEL MAIN, AD MAIN, ROZ
Synchronized series input
R7024 10K
TP7018 DCLK_I
R7010 22
CK_MAIN
DVIH_I
FILM_I
VD_MAIN
HD_MAIN
FLD_MAIN
DE_MAIN
TP7019
TP7020
A 2/12, 4/12, 7/12
A 2/12, 10/12
A 2/12, 7/12
C7064 10P
GND_D
TP7027
TP7028
TP7029
TP7030
TP7031
SIDE A
TP7022
TP7023
TP7024
TP7025
TP7026
R7030 22 1/32W
RAB4CQ220J-T
RA_MAIN[0:7]
GA_MAIN[0:7]
BA_MAIN[0:7]
R7014
R7015
R7016
R7017
R7018
22 1/32W
RAB4CQ220J-T

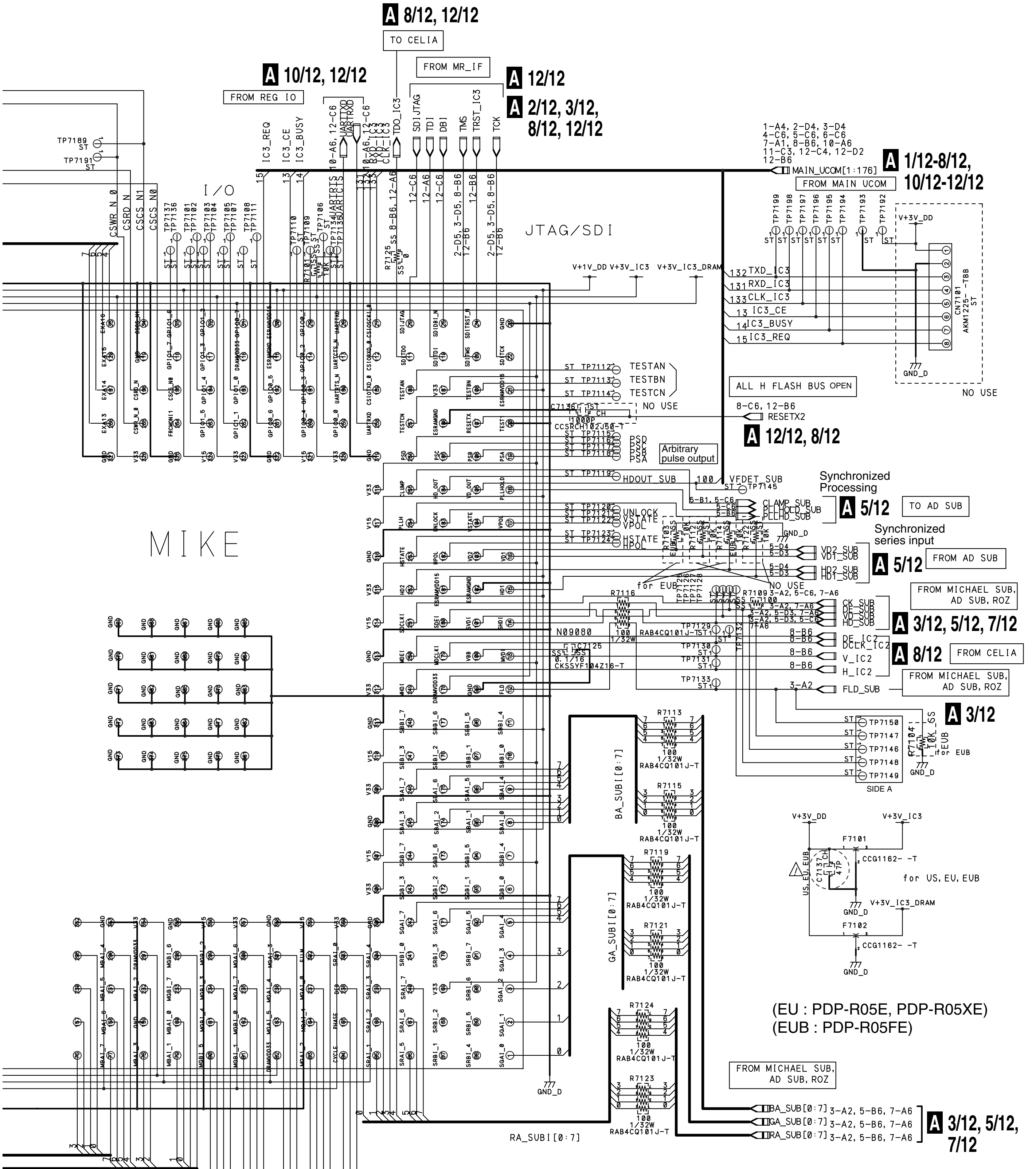
A 8/12

3.11 MR MAIN BOARD ASSY (9/12)

A 9/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944) (PDP-R05XE : AWZ6990) (PDP-R05FE : AWZ6945)

● MIKE BLOCK


for EU, EUB
IC7151
MBM29PL3200BE70PFV
IC7152
MBM29PL3200BE70PFV
V+3V_IC3
TP7138
TP7139
R7159
R7157
R7160
R7158
R7155
R7156
C7153
C7154
C7155
C7156
C7157
C7158
C7159
C7160
C7161
C7162
CKSSYF104Z16-T
0.1/16
EU, EUB
4.7K
SS
ST
TP7190
TP7188
TP7151ST … TP7171ST
TP7172ST … TP7187ST
EXDIO[0:15]
EXA[0:20]
R7105
R7106
R7107
R7108
R7110
R7111
R7102
33
1/32W
RAB4CQ330J-T
IC7101
PD5855A
RESIZE MIX
BA[0:9]
GA[0:9]
RA[0:9]
RA[0:9] 11-A5
GA[0:9] 11-A5
BA[0:9] 11-A5
DEO 11-B6
HDO 11-B6
VDO 11-B6
CLKO 11-B6
TO MR IF
A 11/12
GND_D
TP7140
TP7141
TP7142
TP7143
TP7144
NO USE
K7101
V+1V_DD
C7103
105
ACH1365- -TRB
330/6.3
C7101 … C7119
V+3V_IC3
C7120
C7121 … C7135
TO/FROM CELIA
FIELD 8-D2
SYSCLK_3 8-D2
R7120
100
A 8/12
RB_IC2[0:7] 8-A6
RA_IC2[0:7] 8-A6
BB_IC2[0:7] 8-A6
BA_IC2[0:7] 8-A6
GB_IC2[0:7] 8-A6
GA_IC2[0:7] 8-A6
FILM_IC2 8-B6
CYCLE_IC2 8-B6
PHASE_IC2 8-B6
DEB 8-A4
A 8/12
FROM CELIA
Main series input
A 9/12

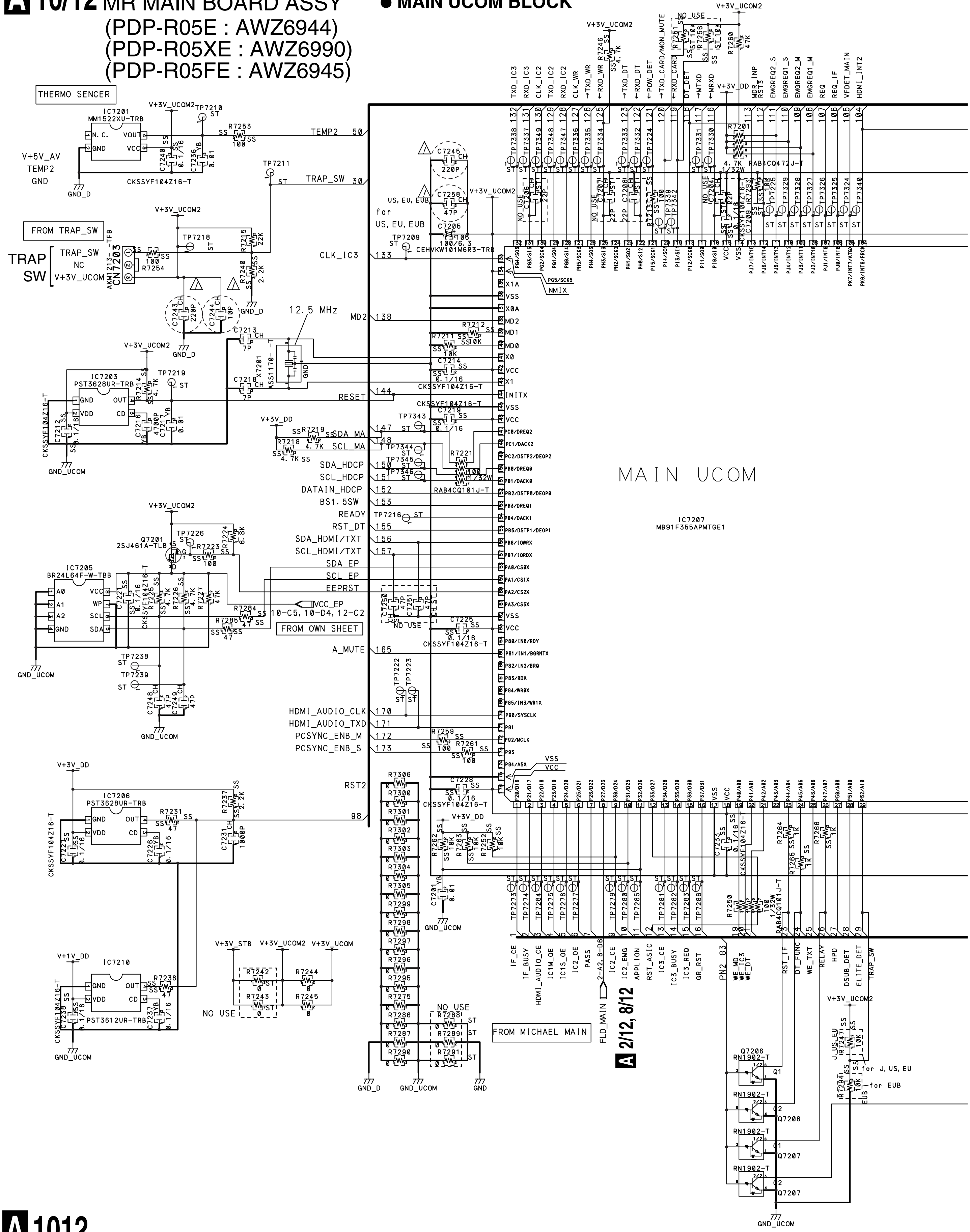

A 8/12, 12/12
TO CELIA
A 10/12, 12/12
FROM REG IO
FROM MR_IF
A 12/12
A 2/12, 3/12, 8/12, 12/12
IC3_REQ
IC3_CE
IC3_BUSY
UARTTXD
UARTRXD
TDO_IC3
SDIJTAG
TDI
DBI
TMS
TRST_IC3
TCK
1-A4, 2-D4, 3-D4
4-C6, 5-C6, 6-C6
7-A1, 8-B6, 10-A6
11-C3, 12-C4, 12-D2
12-B6
MAIN_UCOM[1:176]
FROM MAIN UCOM
A 1/12-8/12, 10/12-12/12
TP7189
TP7191
CSWR_N_0
CSRD_N
CSCS_N1
CSCS_N0
I/O
JTAG/SDI
V+1V_DD
V+3V_IC3
V+3V_IC3_DRAM
TXD_IC3
RXD_IC3
CLK_IC3
IC3_CE
IC3_BUSY
IC3_REQ
CN7101
AKM1225- -TBB
V+3V_DD
GND_D
NO USE
TESTAN
TESTBN
TESTCN
NO USE
ALL H FLASH BUS OPEN
8-C6, 12-B6
RESETX2
A 12/12, 8/12
C7136
1000P
CCSRCH102J50-T
PSD
PSC
PSB
PSA
Arbitrary pulse output
HDOUT_SUB
VFDET_SUB
TP7145
Synchronized Processing
CLAMP_SUB
PLLHOLD_SUB
PLLHD_SUB
A 5/12
TO AD SUB
UNLOCK
VSTATE
VPOL
HSTATE
HPOL
Synchronized series input
VD2_SUB
VD1_SUB
HD2_SUB
HD1_SUB
A 5/12
FROM AD SUB
for EUB
NO USE
FROM MICHAEL SUB, AD SUB, ROZ
R7116
R7109
CK_SUB
DE_SUB
VD_SUB
HD_SUB
A 3/12, 5/12, 7/12
N09080
100
1/32W
RAB4CQ101J-TST
C7125
0.1/16
CKSSYF104Z16-T
DE_IC2
DCLK_IC2
V_IC2
H_IC2
A 8/12
FROM CELIA
FLD_SUB
FROM MICHAEL SUB, AD SUB, ROZ
A 3/12
TP7150
TP7147
TP7146
TP7148
TP7149
R7104
10K
for EUB
SIDE A
MIKE
R7113
R7115
R7119
R7121
R7124
R7123
100
1/32W
RAB4CQ101J-T
BA_SUB[0:7]
GA_SUB[0:7]
RA_SUB[0:7]
V+3V_DD
V+3V_IC3
F7101
CCG1162- -T
C7137
47P
for US, EU, EUB
US, EU, EUB
V+3V_IC3_DRAM
F7102
CCG1162- -T
GND_D
FROM MICHAEL SUB, AD SUB, ROZ
BA_SUB[0:7] 3-A2, 5-B6, 7-A6
GA_SUB[0:7] 3-A2, 5-B6, 7-A6
RA_SUB[0:7] 3-A2, 5-B6, 7-A6
A 3/12, 5/12, 7/12

(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)

3.12 MR MAIN BOARD ASSY (10/12)

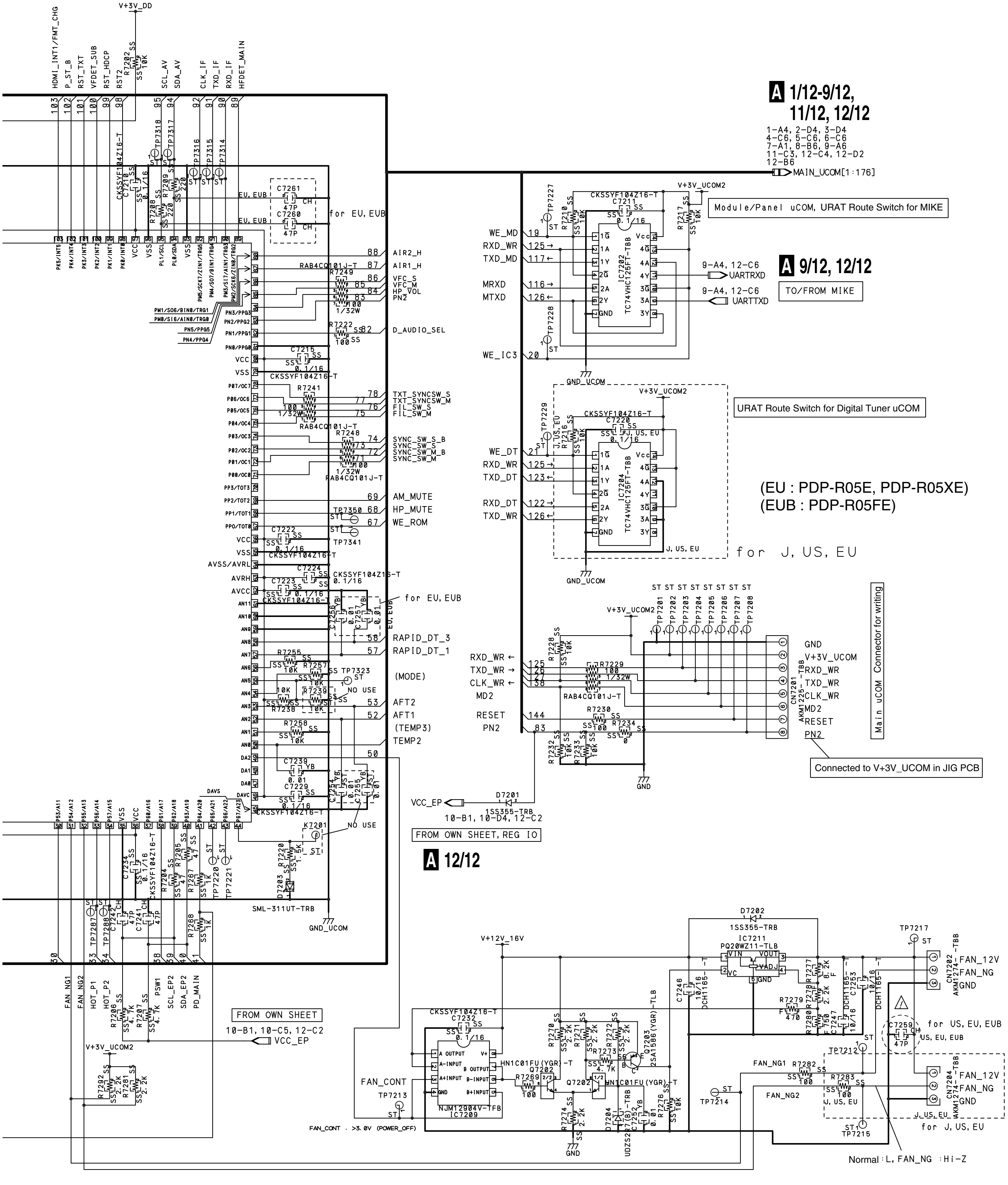
A 10/12 MR MAIN BOARD ASSY
(PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● MAIN UCOM BLOCK



THERMO SENCER
IC7201 MM1522XU-TRB
V+5V_AV
TEMP2
GND
GND_D
CKSSYF104Z16-T
TEMP2 50
TRAP_SW 30
TP7210
TP7211
R7253 100
C7240 0.1/16
C7236 0.01
FROM TRAP_SW
TRAP SW
TRAP_SW
NC
V+3V_UCOM
CN7203
AKM1213-TFB
R7254
TP7218
R7215 22K
R7240 2.2K
C7243 220P
C7244 10P
12.5 MHz
X7201 ASS1170-T
C7213 7P
C7218 7P
IC7203 PST3628UR-TRB
R7214 4.7K
TP7219
C7216 4700P
C7217 0.01
C7212 0.1/16
GND_UCOM
V+3V_UCOM2
V+3V_DD
CLK_IC3 133
MD2 138
RESET 144
SDA_MA 147
SCL_MA 148
SDA_HDCP 150
SCL_HDCP 151
DATAIN_HDCP 152
BS1.5SW 153
READY
RST_DT 155
SDA_HDMI/TXT 156
SCL_HDMI/TXT 157
SDA_EP
SCL_EP
EEPRST
A_MUTE 165
HDMI_AUDIO_CLK 170
HDMI_AUDIO_TXD 171
PCSYNC_ENB_M 172
PCSYNC_ENB_S 173
RST2
98
R7219 4.7K
R7218 4.7K
Q7201 2SJ461A-TLB
TP7226
R7223 100
R7224 6.8K
IC7205 BR24L64F-W-TBB
A0 A1 A2 GND VCC WP SCL SDA
C7221 0.1/16
R7225 4.7K
R7226 4.7K
R7227 47K
R7284 47
R7285 47
VCC_EP
10-C5, 10-D4, 12-C2
FROM OWN SHEET
TP7238
TP7239
C7248 47P
C7249 47P
IC7206 PST3628UR-TRB
R7231 47
R7237 2.2K
C7231 1000P
C7222 0.1/16
C7226 0.1/16
IC7210 PST3612UR-TRB
V+1V_DD
R7236 47
C7238 0.1/16
C7237 0.1/16
V+3V_STB
R7242
R7243
R7244 0
R7245 0
NO USE
C7245 220P
C7258 47P
C7205 100/6.3
CEHVKW101M6R3-TRB
for US, EU, EUB
TP7209
R7212
R7211 10K
C7214 0.1/16
C7219 0.1/16
TP7343
TP7344
TP7345
TP7346
R7221 100 1/32W
RAB4CQ101J-T
C7250 47P
C7251 47P
C7225 0.1/16
TP7216
TP7222
TP7223
R7259 100
R7261 100
C7228 0.1/16
R7306 R7300 R7301 R7302 R7303 R7304 R7305 R7299 R7298 R7297 R7296 R7295 R7275 R7286 R7287 R7290
R7288 R7289 R7291
GND_D GND_UCOM GND
MAIN UCOM
IC7207 MB91F355APMTGE1
X1A VSS X0A MD2 MD1 MD0 X0 VCC X1 INITX VSS VCC
PC0/DREQ2 PC1/DACK2 PC2/DSTP2/DEOP2 PB0/DREQ0 PB1/DACK0 PB2/DSTP0/DEOP0 PB3/DREQ1 PB4/DACK1 PB5/DSTP1/DEOP1 PB6/IOWRX PB7/IORDX PA0/CS0X PA1/CS1X PA2/CS2X PA3/CS3X VSS VCC P80/IN0/RDY P81/IN1/BGRNTX P82/IN2/BRQ P83/RDX P84/WR0X P85/IN3/WR1X P90/SYSCLK P91 P92/MCLK P93 P94/ASX
PG5/SCK5 NMIX
TXD_IC3 132 RXD_IC3 131 CLK_IC2 130 TXD_IC2 129 RXD_IC2 128 CLK_WR 127 TXD_WR 126 RXD_WR 125 TXD_DT 123 RXD_DT 122 POW_DET 121 TXD_CARD/MON_MUTE 120 RXD_CARD 119 DT_DET 118 MTXD 117 MRXD 116 MDR_INP RST3 113 EMGREQ2_S 111 EMGREQ1_S 110 EMGREQ2_M 109 EMGREQ1_M 108 REQ 107 REQ_IF 106 VFDET_MAIN 105 HDMI_INT2 104
R7246 4.7K
R7251 10K
R7256 10K
R7260 47K
NO USE
R7201 4.7K RAB4CQ472J-T 1/32W
TP7338 TP7337 TP7349 TP7348 TP7347 TP7336 TP7335 TP7334 TP7333 TP7332 TP7224 TP7331 TP7330
C7206 22P
C7207 22P
C7208 22P
R7213 100
TP7342
C7204 22P
C7209 0.1/16
R7293 10K
TP7225 TP7329 TP7328 TP7327 TP7326 TP7325 TP7324 TP7340
VSS VCC
R7282 10K
R7283 10K
R7252 10K
C7201 0.01
C7233 0.1/16
R7264 1K
R7265 1K
R7266 1K
R7250 100 1/32W RAB4CQ101J-T
TP7273 TP7274 TP7284 TP7275 TP7276 TP7277 TP7278 TP7280 TP7285 TP7281 TP7282 TP7283 TP7286
IF_CE 1 IF_BUSY 2 HDMI_AUDIO_CE 3 IC1M_OE 4 IC1S_OE 5 IC2_OE 6 PASS 7 IC2_CE 9 IC2_EMG 10 APPLION 11 RST_ASIC 12 IC3_CE 13 IC3_BUSY 14 IC3_REQ 15 GR_RST 16 PN2 83 WE_MD 19 WE_IC3 20 WE_DT 21 RST_IF 23 DT_FUNC 24 WE_TXT 25 RELAY 26 HPD 27 DSUB_DET 28 ELITE_DET 29 TRAP_SW
FLD_MAIN 2-A2, 8-D6
A 2/12, 8/12
FROM MICHAEL MAIN
V+3V_UCOM2
R7247 10K J, US, EU
R7294 10K EUB
for J, US, EU
for EUB
Q7206 RN1902-T Q1 Q2
Q7207 RN1902-T Q1 Q2
GND_UCOM

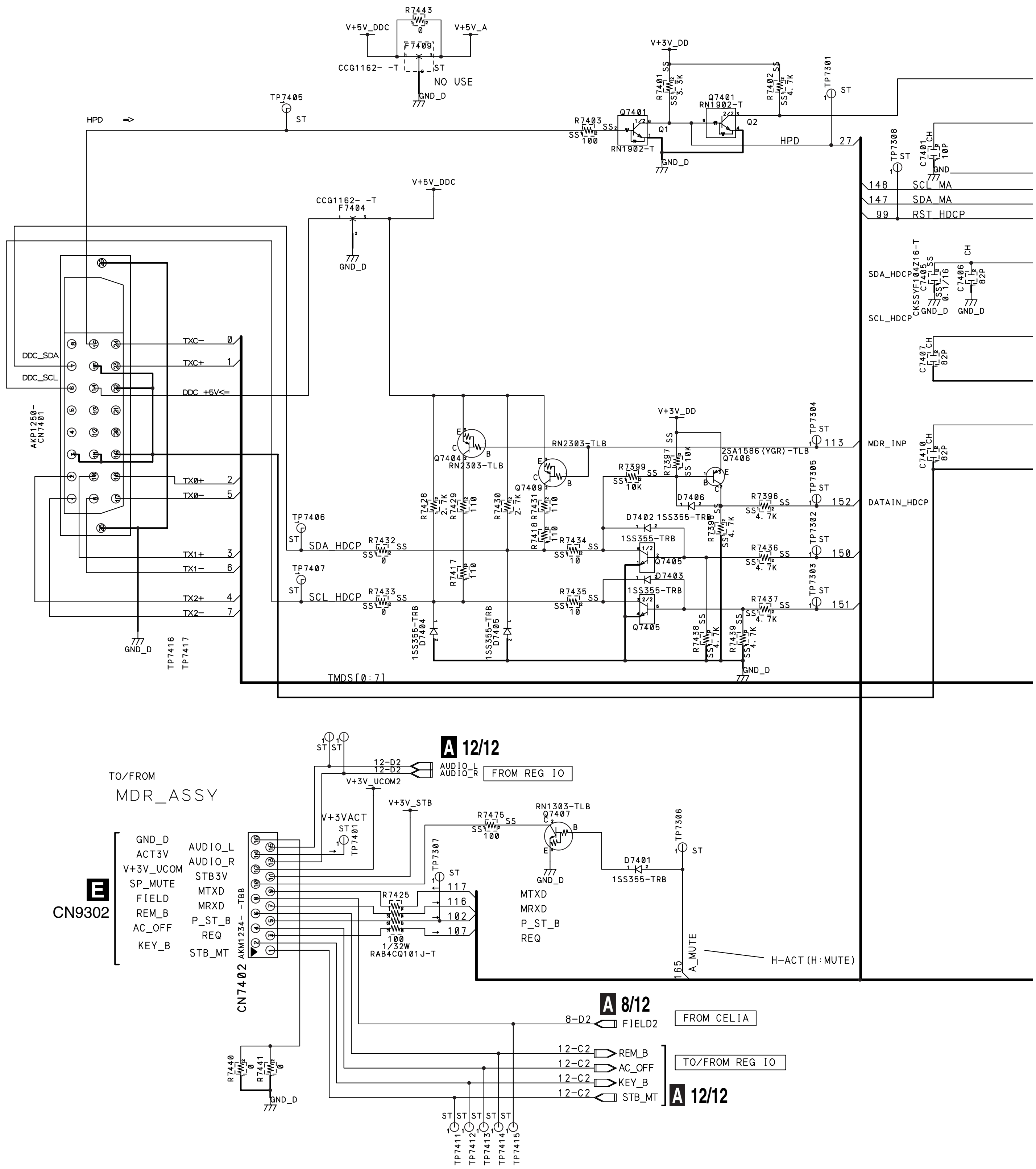
A 1012


A 1/12-9/12, 11/12, 12/12
1-A4, 2-D4, 3-D4
4-C6, 5-C6, 6-C6
7-A1, 8-B6, 9-A6
11-C3, 12-C4, 12-D2
12-B6
MAIN_UCOM[1:176]
V+3V_DD
HDMI_INT1/FMT_CHG
P_ST_B
RST_TXT
VFDET_SUB
RST_HDCP
RST2
SCL_AV
SDA_AV
CLK_IF
TXD_IF
RXD_IF
HFDET_MAIN
for EU, EUB
AIR2_H
AIR1_H
VFC_S
VFC_M
HP_VOL
PN2
D_AUDIO_SEL
TXT_SYNCSW_S
TXT_SYNCSW_M
FIL_SW_S
FIL_SW_M
SYNC_SW_S_B
SYNC_SW_S
SYNC_SW_M_B
SYNC_SW_M
AM_MUTE
HP_MUTE
WE_ROM
RAPID_DT_3
RAPID_DT_1
(MODE)
NO USE
AFT2
AFT1
(TEMP3)
TEMP2
SML-311UT-TRB
GND_UCOM
FAN_NG1
FAN_NG2
HOT_P1
HOT_P2
PSW1
SCL_EP2
SDA_EP2
PD_MAIN
FROM OWN SHEET
10-B1, 10-C5, 12-C2
VCC_EP
V+3V_UCOM2
Module/Panel uCOM, URAT Route Switch for MIKE
WE_MD
RXD_WR
TXD_MD
MRXD
MTXD
WE_IC3
IC7202
TC74VHC126FT-TBB
9-A4, 12-C6
UARTRXD
UARTTXD
A 9/12, 12/12
TO/FROM MIKE
URAT Route Switch for Digital Tuner uCOM
WE_DT
RXD_WR
TXD_DT
RXD_DT
TXD_WR
IC7204
TC74VHC126FT-TBB
for J, US, EU
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)
RXD_WR
TXD_WR
CLK_WR
MD2
RESET
PN2
RAB4CQ101J-T
CN7201
AKM1225-TBB
GND
V+3V_UCOM
RXD_WR
TXD_WR
CLK_WR
MD2
RESET
PN2
Main uCOM Connector for writing
Connected to V+3V_UCOM in JIG PCB
D7201
1SS355-TRB
VCC_EP
10-B1, 10-D4, 12-C2
FROM OWN SHEET, REG IO
A 12/12
V+12V_16V
D7202
1SS355-TRB
IC7211
PQ20WZ11-TLB
TP7217
CN7202
AKM1274-TBB
FAN_12V
FAN_NG
GND
for US, EU, EUB
IC7209
NJM12904V-TFB
Q7202
HN1C01FU(YGR)-T
Q7203
2SA1586(YGR)-TLB
FAN_CONT
TP7213
FAN_CONT : >3.0V (POWER_OFF)
UDZS2
TP7214
FAN_NG1
FAN_NG2
CN7204
AKM1274-TBB
FAN_12V
FAN_NG
GND
for J, US, EU
TP7215
Normal : L, FAN_NG : Hi-Z
GND

3.13 MR MAIN BOARD ASSY (11/12)

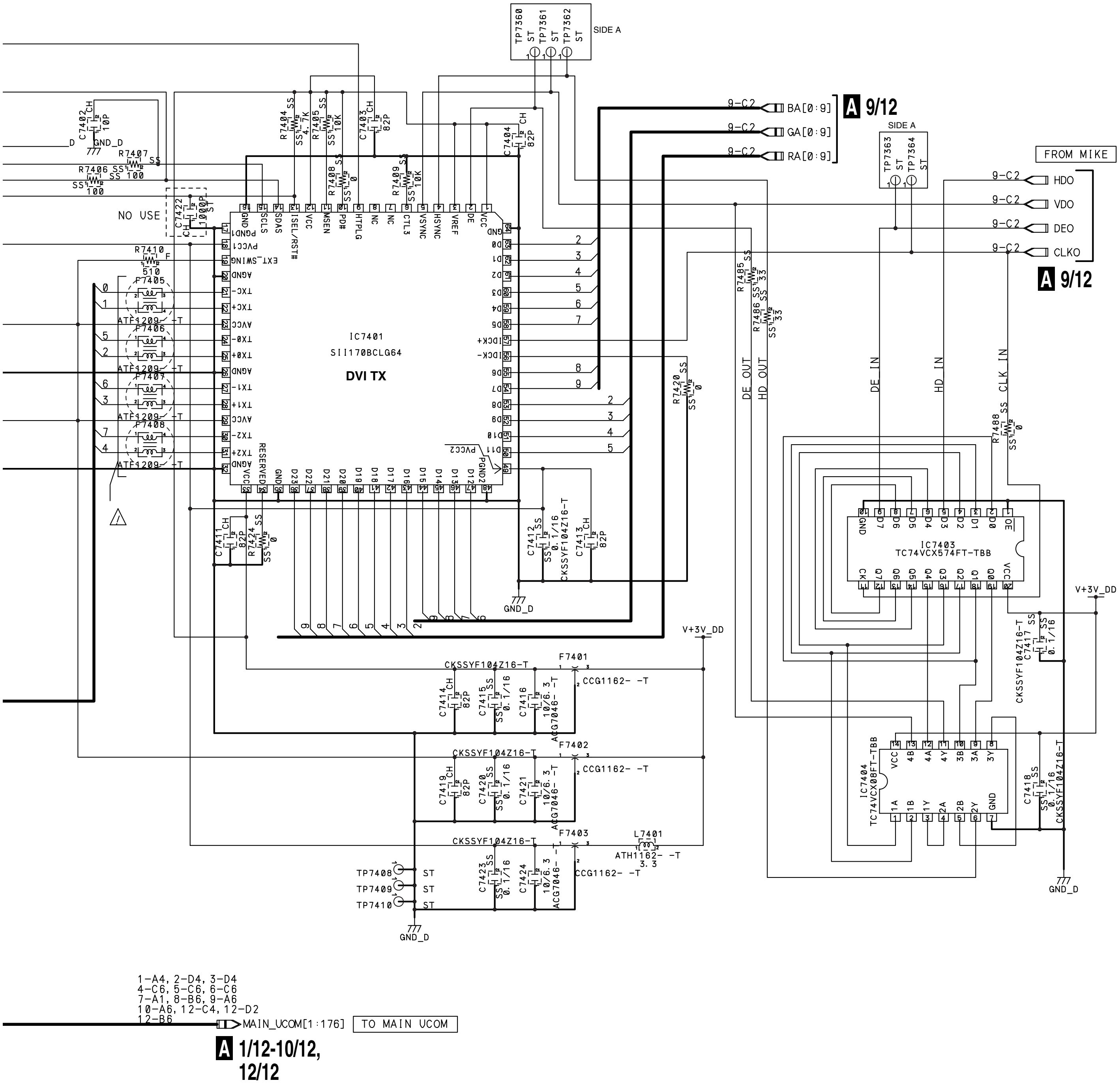
A 11/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944) (PDP-R05XE : AWZ6990) (PDP-R05FE : AWZ6945)

● MR I/F BLOCK

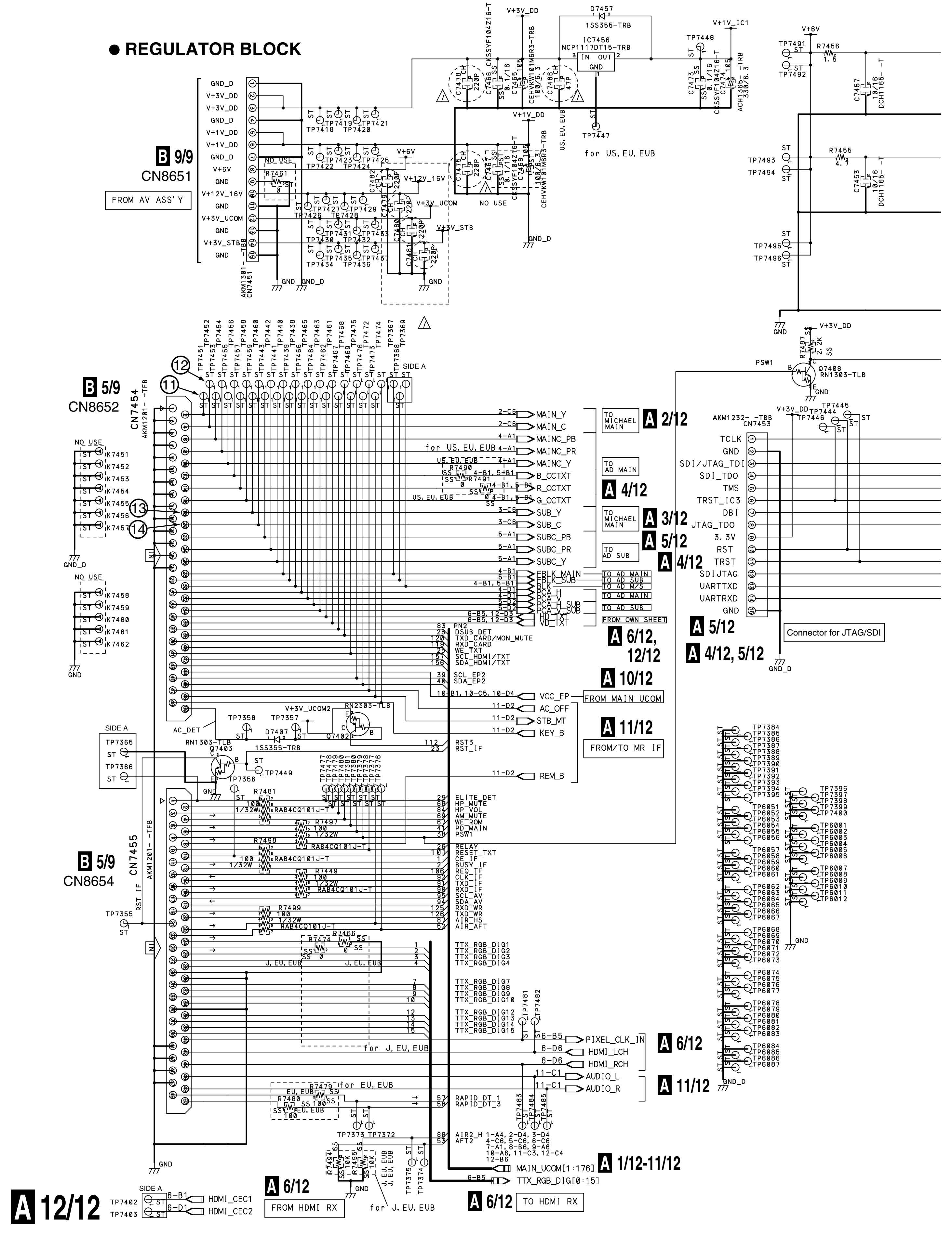


R7443
0
V+5V_DDC
V+5V_A
F7409
CCG1162- -T
ST
NO USE
GND_D
V+3V_DD
R7401 3.3K
R7402 4.7K
TP7301
Q7401 RN1902-T
Q1
Q2
R7403 100
TP7405
HPD
HPD 27
TP7308
C7401 10P
148 SCL_MA
147 SDA_MA
99 RST_HDCP
CCG1162- -T
F7404
V+5V_DDC
SDA_HDCP
SCL_HDCP
CKSSYF104Z16-T C7405 0.1/16
C7406 82P
C7407 82P
AKP1250- CN7401
DDC_SDA
DDC_SCL
TXC- 0
TXC+ 1
DDC +5V<=
TX0+ 2
TX0- 5
TX1+ 3
TX1- 6
TX2+ 4
TX2- 7
TP7416
TP7417
V+3V_DD
TP7304 113
MDR_INP
C7410 82P
RN2303-TLB
Q7404
Q7409
2SA1586(YGR)-TLB Q7406
R7397 10K
R7399 10K
D7406
R7396 4.7K
TP7305 152
DATAIN_HDCP
R7428 2.7K
R7429 110
R7430 2.7K
R7431 110
R7418 110
R7417 110
D7402 1SS355-TRB
R7398 4.7K
TP7406
SDA HDCP
R7432 0
R7434 10
1SS355-TRB
Q7405
D7403
R7436 4.7K
TP7302 150
TP7407
SCL HDCP
R7433 0
R7435 10
R7437 4.7K
TP7303 151
1SS355-TRB D7404
1SS355-TRB D7405
R7438 4.7K
R7439 4.7K
GND_D
TMDS[0:7]
A 12/12
12-D2 AUDIO_L
12-D2 AUDIO_R
FROM REG IO
V+3V_UCOM2
TO/FROM
MDR_ASSY
V+3V_STB
V+3VACT
TP7401
R7475 100
RN1303-TLB Q7407
TP7306
E
CN9302
GND_D
ACT3V
V+3V_UCOM
SP_MUTE
FIELD
REM_B
AC_OFF
KEY_B
AUDIO_L
AUDIO_R
STB3V
MTXD
MRXD
P_ST_B
REQ
STB_MT
CN7402 AKM1234- -TBB
TP7307
117
116
102
107
R7425
100 1/32W
RAB4CQ101J-T
MTXD
MRXD
P_ST_B
REQ
D7401 1SS355-TRB
A_MUTE
165
H-ACT(H:MUTE)
A 8/12
8-D2 FIELD2
FROM CELIA
12-C2 REM_B
12-C2 AC_OFF
12-C2 KEY_B
12-C2 STB_MT
TO/FROM REG IO
A 12/12
R7440 0
R7441 0
TP7411
TP7412
TP7413
TP7414
TP7415

A 11/12


TP7360 ST
TP7361 ST
TP7362 ST
SIDE A
C7402 CH 10P
GND_D
R7407 SS
R7406 SS 100
SS 100
R7404 SS 4.7K
R7405 SS 10K
C7403 CH 82P
C7404 CH 82P
R7408 SS 0
R7409 SS 10K
NO USE
C7422 CH 1000P ST
R7410 F 510
F7405
F7406
F7407
F7408
ATF1209- -T
IC7401
SII170BCLG64
DVI TX
GND SCL SDA ISEL/RST# VCC MSEN PD# HTPLG NC NC CTL3 VSYNC HSYNC VREF DE VCC
PGND1 PVCC1 EXT_SWING AGND TXC- TXC+ AVCC TX0- TX0+ AGND TX1- TX1+ AVCC TX2- TX2+ AGND
GND D0 D1 D2 D3 D4 D5 IDCK+ IDCK- D6 D7 D8 D9 D10 D11 PGND2 PVCC2
RESERVED VCC GND D23 D22 D21 D20 D19 D18 D17 D16 D15 D14 D13 D12
9-C2 BA[0:9]
9-C2 GA[0:9]
9-C2 RA[0:9]
A 9/12
SIDE A
TP7363 ST
TP7364 ST
FROM MIKE
9-C2 HDO
9-C2 VDO
9-C2 DEO
9-C2 CLKO
A 9/12
R7485 SS 33
R7486 SS 33
R7420 SS 0
DE OUT
HD OUT
DE IN
HD IN
CLK IN
R7488 SS 0
IC7403
TC74VCX574FT-TBB
GND D7 D6 D5 D4 D3 D2 D1 D0 OE
CK Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0 VCC
V+3V_DD
C7417 SS 0.1/16
CKSSYF104Z16-T
C7411 CH 82P
R7424 SS 0
C7412 SS 0.1/16
CKSSYF104Z16-T
C7413 CH 82P
GND_D
V+3V_DD
F7401
CKSSYF104Z16-T
CCG1162- -T
C7414 CH 82P
C7415 SS 0.1/16
C7416 10/6.3
ACG7046- -T
F7402
CKSSYF104Z16-T
CCG1162- -T
C7419 CH 82P
C7420 SS 0.1/16
C7421 10/6.3
ACG7046- -T
F7403
CKSSYF104Z16-T
L7401
ATH1162- -T
3.3
CCG1162- -T
C7423 SS 0.1/16
C7424 10/6.3
ACG7046- -T
TP7408 ST
TP7409 ST
TP7410 ST
GND_D
IC7404
TC74VCX08FT-TBB
VCC 4B 4A 4Y 3B 3A 3Y
1A 1B 1Y 2A 2B 2Y GND
C7418 SS 0.1/16
CKSSYF104Z16-T
GND_D
1-A4, 2-D4, 3-D4
4-C6, 5-C6, 6-C6
7-A1, 8-B6, 9-A6
10-A6, 12-C4, 12-D2
12-B6
MAIN_UCOM[1:176]
TO MAIN UCOM
A 1/12-10/12,
12/12

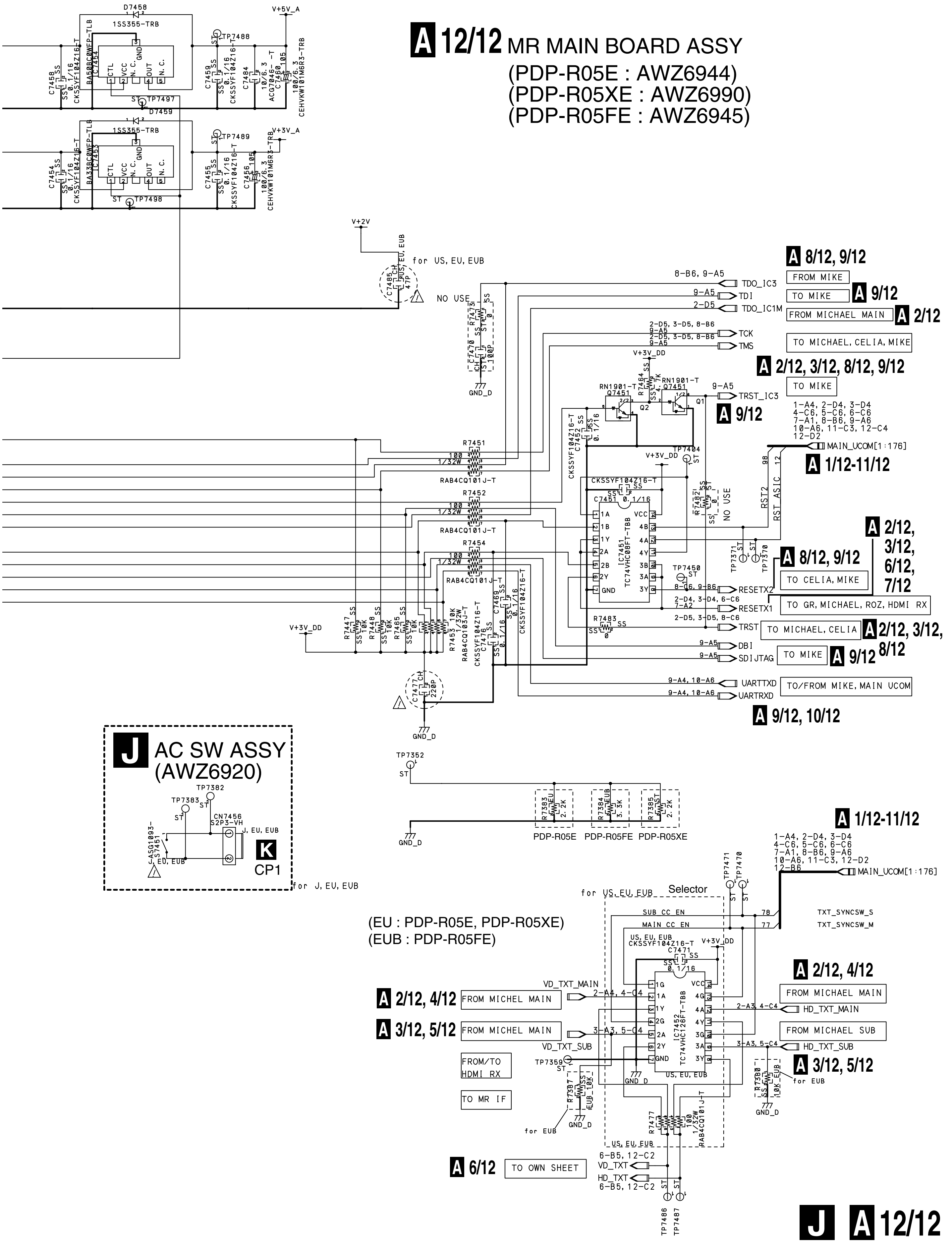
3.14 MR MAIN BOARD ASSY (12/12)



● REGULATOR BLOCK
B 9/9
CN8651
FROM AV ASS'Y
GND_D
V+3V_DD
V+3V_DD
GND_D
V+1V_DD
V+1V_DD
GND_D
V+6V
GND
V+12V_16V
GND
V+3V_UCOM
GND
V+3V_STB
GND
AKM1301- -TBB
CN7451
NO USE
R7461
TP7418 TP7419 TP7420 TP7421
TP7422 TP7423 TP7424 TP7425
TP7426 TP7427 TP7428 TP7429
TP7430 TP7431 TP7432 TP7453
TP7434 TP7435 TP7436 TP7467
V+6V
V+12V_16V
V+3V_UCOM
V+3V_STB
C7482 C7479 C7480 C7481
220P
V+3V_DD
D7457
1SS355-TRB
IC7456
NCP1117DT15-TRB
IN OUT
GND
V+1V_IC1
TP7448
C7478 C7466 C7465 C7486
CKSSYF104Z16-T
CEHVKW101M6R3-TRB
C7473 C7474 C7477
ACH1365- -TRB
330/6.3
TP7447
V+1V_DD
for US, EU, EUB
US, EU, EUB
C7475 C7467 C7476 C7468
NO USE
GND_D
GND
V+6V
TP7491
TP7492
R7456
1.5
C7457
10/16
DCH1165- -T
TP7493
TP7494
R7455
4.7
C7453
TP7495
TP7496
GND
V+3V_DD
R7487
2.2K
PSW1
Q7408
RN1303-TLB
B 5/9
CN8652
CN7454
AKM1201- -TFB
⑪
⑫
⑬
⑭
TP7451 TP7452 TP7453 TP7454 TP7455 TP7456 TP7457 TP7458 TP7459 TP7460 TP7443 TP7442 TP7441 TP7440 TP7439 TP7438 TP7466 TP7465 TP7464 TP7463 TP7462 TP7461 TP7467 TP7468 TP7469 TP7475 TP7476 TP7472 TP7477 TP7474 TP7368 TP7367 TP7369
SIDE A
NO USE
IK7451 IK7452 IK7453 IK7454 IK7455 IK7456 IK7457
GND_D
NO USE
IK7458 IK7459 IK7460 IK7461 IK7462
GND
2-C6 MAIN_Y
2-C6 MAIN_C
4-A1 MAINC_PB
4-A1 MAINC_PR
4-A1 MAINC_Y
4-B1, 5-B1 B_CCTXT
4-B1, 5-B1 R_CCTXT
4-B1, 5-B1 G_CCTXT
3-C6 SUB_Y
3-C6 SUB_C
5-A1 SUBC_PB
5-A1 SUBC_PR
5-A1 SUBC_Y
4-B1 FBLK_MAIN
5-B1 FBLK_SUB
4-B1, 5-B1 BLK
4-D1 DCA_H
4-D1 DCA_V
5-D4 DCA_H_SUB
5-D4 DCA_V_SUB
6-B5, 12-D3 HD_TXT
6-B5, 12-D3 VD_TXT
for US, EU, EUB
US, EU, EUB
R7490
R7491
US, EU, EUB
TO MICHAEL MAIN
A 2/12
TO AD MAIN
A 4/12
TO MICHAEL MAIN
A 3/12
A 5/12
TO AD SUB
A 4/12
TO AD MAIN
TO AD SUB
TO AD M/S
TO AD MAIN
TO AD SUB
FROM OWN SHEET
A 6/12, 12/12
83 PN2
28 DSUB_DET
120 TXD_CARD/MON_MUTE
119 RXD_CARD
29 WE_TXT
157 SCL_HDMI/TXT
156 SDA_HDMI/TXT
39 SCL_EP2
40 SDA_EP2
A 10/12
10-B1, 10-C5, 10-D4 VCC_EP
FROM MAIN UCOM
11-D2 AC_OFF
11-D2 STB_MT
11-D2 KEY_B
A 11/12
FROM/TO MR IF
112 RST3
23 RST_IF
11-D2 REM_B
AC_DET
TP7358
TP7357
V+3V_UCOM2
RN2303-TLB
D7407
1SS355-TRB
Q7402
Q7403
RN1303-TLB
TP7449
TP7356
SIDE A
TP7365
TP7366
B 5/9
CN8654
CN7455
AKM1201- -TFB
RST_IF
TP7355
R7481
100
1/32W
RAB4CQ101J-T
R7497
R7498
R7449
R7499
TP7377 TP7378 TP7379 TP7380 TP7381 TP7370 TP7371 TP7376
29 ELITE_DET
68 HP_MUTE
84 HP_VOL
69 AM_MUTE
42 WE_ROM
41 PD_MAIN
38 PSW1
26 RELAY
107 RESET_TXT
1 CE_IF
2 BUSY_IF
106 REQ_IF
92 CLK_IF
91 TXD_IF
90 RXD_IF
95 SCL_AV
94 SDA_AV
125 RXD_WR
126 TXD_WR
87 AIR_HS
52 AIR_AFT
R7474
R7468
J, EU, EUB
1 TTX_RGB_DIG1
2 TTX_RGB_DIG2
3 TTX_RGB_DIG3
4 TTX_RGB_DIG4
7 TTX_RGB_DIG7
8 TTX_RGB_DIG8
9 TTX_RGB_DIG9
10 TTX_RGB_DIG10
12 TTX_RGB_DIG12
13 TTX_RGB_DIG13
14 TTX_RGB_DIG14
15 TTX_RGB_DIG15
for J, EU, EUB
TP7481
TP7482
6-B5 PIXEL_CLK_IN
6-D6 HDMI_LCH
6-D6 HDMI_RCH
A 6/12
11-C1 AUDIO_L
11-C1 AUDIO_R
A 11/12
R7479
R7480
for EU, EUB
EU, EUB
57 RAPID_DT_1
58 RAPID_DT_3
TP7483 TP7484 TP7485
TP7373 TP7372
88 AIR2_H
53 AFT2
1-A4, 2-D4, 3-D4
4-C6, 5-C6, 6-C6
7-A1, 8-B6, 9-A6
10-A8, 11-C3, 12-C4
12-B6
MAIN_UCOM[1:176]
A 1/12-11/12
6-B5 TTX_RGB_DIG[0:15]
A 6/12
TO HDMI RX
R7494
R7495
10K
J, EU, EUB
TP7375
TP7374
GND
A 6/12
FROM HDMI RX
for J, EU, EUB
SIDE A
TP7402
TP7403
6-B1 HDMI_CEC1
6-D1 HDMI_CEC2
A 12/12
V+3V_DD
TP7445
TP7444
TP7446
AKM1232- -TBB
CN7453
TCLK
GND
SDI/JTAG_TDI
SDI_TDO
TMS
TRST_IC3
DBI
JTAG_TDO
3.3V
RST
TRST
SDIJTAG
UARTTXD
UARTRXD
GND
A 5/12
A 4/12, 5/12
GND_D
Connector for JTAG/SDI
TP7384 TP7385 TP7386 TP7387 TP7388 TP7389 TP7390 TP7391 TP7392 TP7393 TP7394 TP7395
TP7396 TP7397 TP7398 TP7399 TP7400
TP6051 TP6052 TP6053 TP6054 TP6055 TP6056
TP6001 TP6002 TP6003 TP6004 TP6005 TP6006
TP6057 TP6058 TP6059 TP6060 TP6061
TP6007 TP6008 TP6009 TP6010 TP6011 TP6012
TP6062 TP6063 TP6064 TP6065 TP6066 TP6067
TP6068 TP6069 TP6070 TP6071 TP6072 TP6073
TP6074 TP6075 TP6076 TP6077
TP6078 TP6079 TP6080 TP6081 TP6082 TP6083
TP6084 TP6085 TP6086 TP6087
GND
GND_D

A 12/12 MR MAIN BOARD ASSY

(PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)



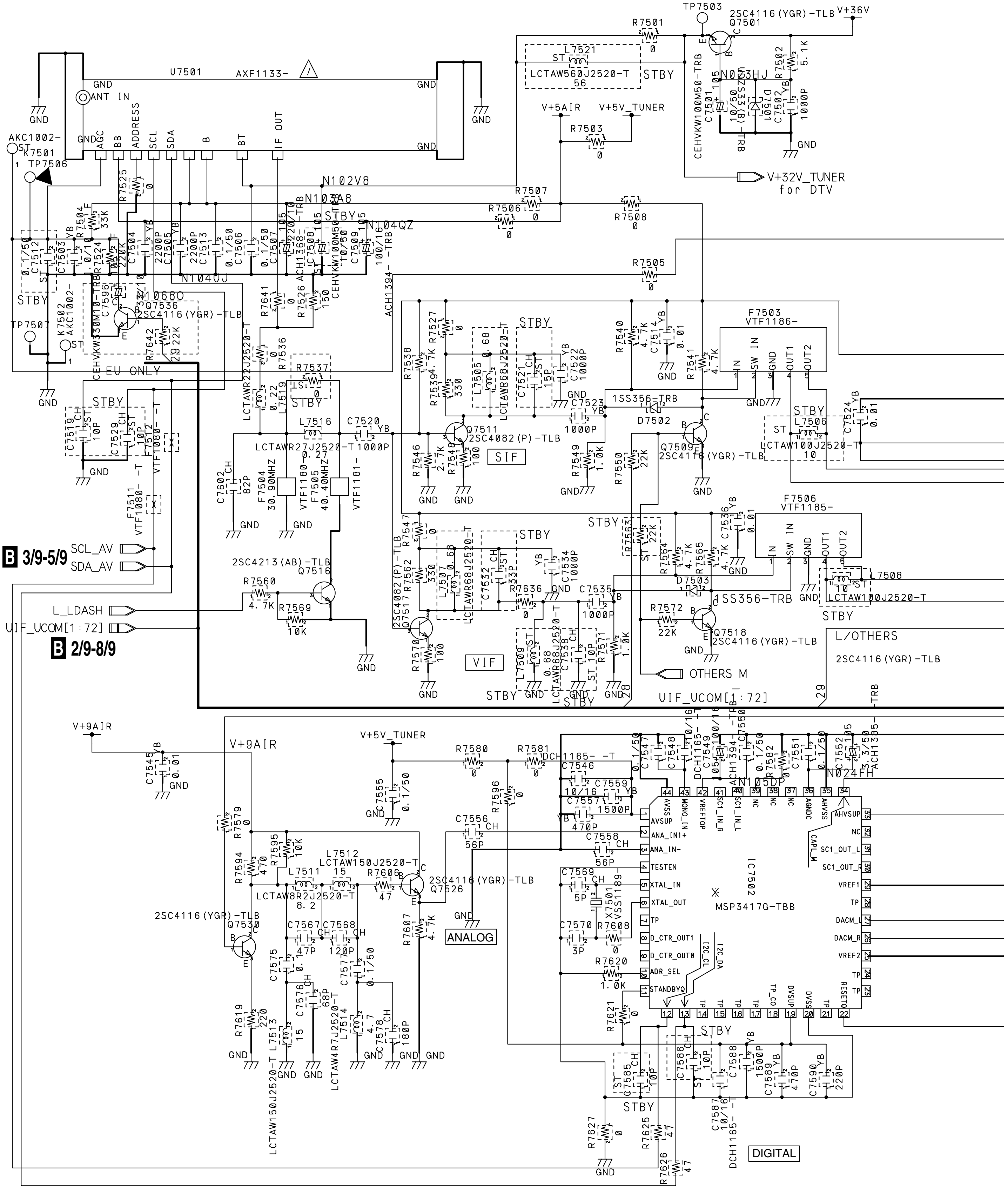
D7458
1SS355-TRB
V+5V_A
TP7488
IC7454
BA50BC0WFP-TLB
CTL
VCC
N.C.
GND
OUT
N.C.
C7458
0.1/16
CKSSYF104Z16-T
C7459
0.1/16
CKSSYF104Z16-T
C7484
10/6.3
ACG7046- -T
C7460
100/6.3
CEHVKW101M6R3-TRB
TP7497
D7459
1SS355-TRB
V+3V_A
TP7489
IC7453
BA33BC0WFP-TLB
C7454
C7455
C7456
100/6.3
CEHVKW101M6R3-TRB
TP7498
V+2V
for US, EU, EUB
C7485
47P
NO USE
R7473
C7470
100P
GND_D
8-B6, 9-A5
TDO_IC3
9-A5
TDI
2-D5
TDO_IC1M
2-D5, 3-D5, 8-B6
TCK
TMS
V+3V_DD
R7464
4.7K
RN1901-T
Q7451
Q1
Q2
9-A5
TRST_IC3
C7452
0.1/16
CKSSYF104Z16-T
R7451
100
1/32W
RAB4CQ101J-T
R7452
R7454
TP7404
C7451
IC7451
TC74VHC08FT-TBB
1A 1B 1Y 2A 2B 2Y GND VCC 4B 4A 4Y 3B 3A 3Y
R7482
NO USE
TP7450
TP7371
TP7370
RST2
RST ASIC
98
12
MAIN_UCOM[1:176]
1-A4, 2-D4, 3-D4
4-C6, 5-C6, 6-C6
7-A1, 8-B6, 9-A6
10-A6, 11-C3, 12-C4
12-D2
A 8/12, 9/12
FROM MIKE
TO MIKE
A 9/12
FROM MICHAEL MAIN
A 2/12
TO MICHAEL, CELIA, MIKE
A 2/12, 3/12, 8/12, 9/12
TO MIKE
A 9/12
A 1/12-11/12
A 2/12, 3/12, 6/12, 7/12
A 8/12, 9/12
TO CELIA, MIKE
8-C6, 9-B6
RESETX2
2-D4, 3-D4, 6-C6
7-A2
RESETX1
TO GR, MICHAEL, ROZ, HDMI RX
R7483
0
2-D5, 3-D5, 8-C6
TRST
TO MICHAEL, CELIA
A 2/12, 3/12, 8/12
9-A5
DBI
SDIJTAG
TO MIKE
A 9/12
9-A4, 10-A6
UARTTXD
UARTRXD
TO/FROM MIKE, MAIN UCOM
A 9/12, 10/12
V+3V_DD
R7447
R7448
R7465
10K
R7453
10K
1/32W
RAB4CQ103J-T
C7476
C7469
C7477
220P
J AC SW ASSY (AWZ6920)
TP7382
TP7383
CN7456
S2P3-VH
J, EU, EUB
ASG1093-
S7451
EU, EUB
K
CP1
for J, EU, EUB
TP7352
R7383
2.2K
R7384
3.3K
R7385
2.2K
PDP-R05E
PDP-R05FE
PDP-R05XE
A 1/12-11/12
TP7471
TP7470
Selector
for US, EU, EUB
SUB CC EN
MAIN CC EN
78
77
TXT_SYNCSW_S
TXT_SYNCSW_M
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)
C7471
IC7452
TC74VHC126FT-TBB
1G 1A 1Y 2G 2A 2Y GND VCC 4G 4A 4Y 3G 3A 3Y
VD_TXT_MAIN
A 2/12, 4/12
FROM MICHEL MAIN
2-A4, 4-C4
A 3/12, 5/12
FROM MICHEL MAIN
3-A3, 5-C4
VD_TXT_SUB
FROM/TO HDMI RX
TO MR IF
TP7359
R7387
for EUB
A 2/12, 4/12
FROM MICHAEL MAIN
2-A3, 4-C4
HD_TXT_MAIN
FROM MICHAEL SUB
3-A3, 5-C4
HD_TXT_SUB
A 3/12, 5/12
R7380
for EUB
R7477
100
1/32W
RAB4CQ101J-T
US, EU, EUB
6-B5, 12-C2
VD_TXT
HD_TXT
A 6/12
TO OWN SHEET
TP7486
TP7487

J A 12/12

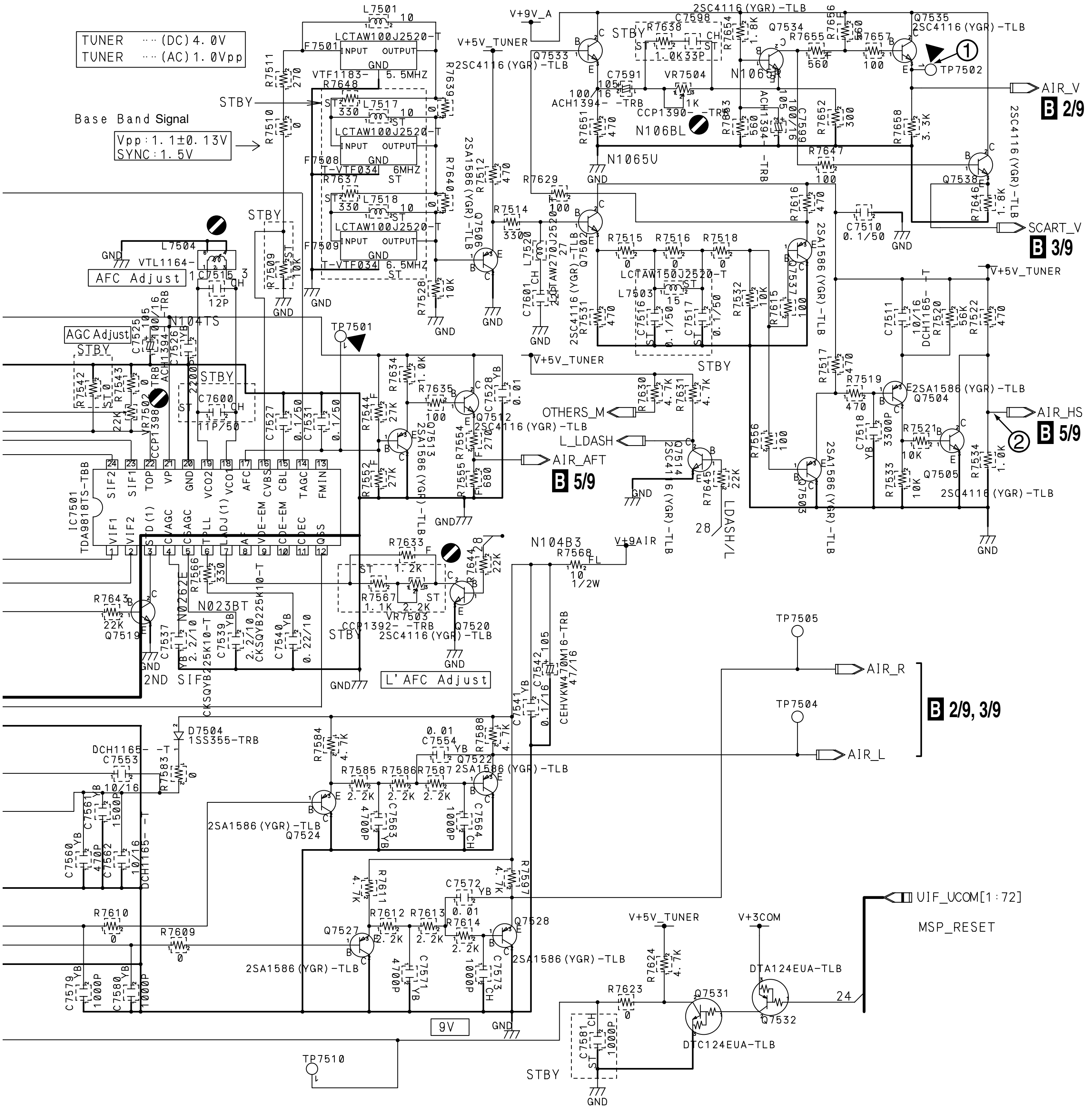
3.15 AV BOARD ASSY (1/9)

B 1/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● TUNER BLOCK


U7501
AXF1133-
ANT IN
GND
AGC
BB
ADDRESS
SCL
SDA
B
BT
IF OUT
AKC1002-
K7501
TP7506
TP7507
K7502
AKC1002-
EU ONLY
N102V8
N103A8
N104QZ
N1040J
N1068O
Q7536
2SC4116(YGR)-TLB
R7504 33K
R7524 220K
R7525 0
C7503
C7512 0.1/50
C7504 2200P
C7505 2200P
C7513
C7506 0.1/50
C7507 0.1/50
C7508 220/10
C7509 100/16
ACH1368-
CEHVKW100M50-T
ACH1394-
C7596 33/10
CEHVKW330M10-TRB
R7642 22K
R7641 0
R7526 150
R7536 0
R7537 0
L7519 0.22
LCTAWR22J2520-T
C7519 10P
C7529 10P
F7512 VTF1080-T
F7511 VTF1080-T
L7516
LCTAWR27J2520-T 0.27
C7520 1000P
C7602 82P
F7504 30.90MHZ
VTF1180-
F7505 40.40MHZ
VTF1181-
B 3/9-5/9
SCL_AV
SDA_AV
L_LDASH
UIF_UCOM[1:72]
B 2/9-8/9
2SC4213(AB)-TLB
Q7516
R7560 4.7K
R7569 10K
STBY
TP7503
R7501 0
L7521
LCTAW560J2520-T 56
2SC4116(YGR)-TLB
Q7501
V+36V
R7502 5.1K
N0R3HJ
C7501 10/50
CEHVKW100M50-TRB
D7501 UDZS33(B)-TRB
C7502 1000P
V+32V_TUNER for DTV
V+5AIR
V+5V_TUNER
R7503 0
R7507 0
R7506 0
R7508 0
R7505 0
R7527 0
R7538 4.7K
R7539 330
L7505 0.68
LCTAWR68J2520-T
C7521 15P
C7522 1000P
C7523 1000P
Q7511
2SC4082(P)-TLB
R7546 2.7K
R7548 100
SIF
R7540 4.7K
C7514 0.01
R7541 4.7K
F7503 VTF1186-
IN SW IN GND OUT1 OUT2
1SS356-TRB
D7502
Q7509
2SC4116(YGR)-TLB
R7549 1.0K
R7550 22K
L7506
LCTAW100J2520-T 10
C7524 0.01
F7506 VTF1185-
R7547 0
R7562 330
Q7517
2SC4082(P)-TLB
L7507 0.68
C7532 33P
C7534 1000P
R7636 0
C7535 1000P
R7570 100
VIF
L7509 0.68
LCTAWR68J2520-T
C7538 10P
R7571 1.0K
R7563 22K
R7564 4.7K
R7565 4.7K
C7536 0.01
D7503
1SS356-TRB
L7508
LCTAW100J2520-T 10
R7572 22K
Q7518
2SC4116(YGR)-TLB
L/OTHERS
OTHERS M
UIF_UCOM[1:72]
28
29
V+9AIR
C7545 0.01
R7579 0
R7594 470
R7595 10K
L7511 8.2
LCTAW8R2J2520-T
L7512
LCTAW150J2520-T 15
R7606 47
Q7526
2SC4116(YGR)-TLB
R7607 4.7K
ANALOG
Q7530
2SC4116(YGR)-TLB
C7567 47P
C7568 120P
C7575 0.1/50
C7576 68P
C7577 0.1/50
L7514 4.7
LCTAW4R7J2520-T
C7578 180P
R7619 220
L7513 15
LCTAW150J2520-T
V+5V_TUNER
C7555 0.1/50
R7580 0
R7581 0
R7596 0
DCH1165-T
C7546 10/16
C7559
C7557 1500P
470P
C7556 56P
C7558 56P
C7569 5P
X7501 VSS1189-
C7570 3P
R7608 0
R7620 1.0K
R7621 0
C7547 0.1/50
C7548
C7549 100/16
C7550
C7551 0.1/50
C7552 3.3/50
R7582 0
ACH1394-
ACH1385-TRB
N105DP
N024FH
IC7502
MSP3417G-TBB
AVSUP ANA_IN1+ ANA_IN- TESTEN XTAL_IN XTAL_OUT TP D_CTR_OUT1 D_CTR_OUT0 ADR_SEL STANDBYQ
AVSS MONO_IN VREFTOP SC1_IN_R SC1_IN_L NC NC NC AGNDC AHVSS CAPL_M AHVSUP
NC SC1_OUT_L SC1_OUT_R VREF1 TP DACM_L DACM_R VREF2 TP TP
I2C_CL I2C_DA TP TP TP TP TP_CO DVSUP DVSS TP RESETQ
C7585 10P
C7586 10P
C7588 1500P
C7589 470P
C7590 220P
C7587 10/16
DCH1165-T
R7627 0
R7625 47
R7626 47
DIGITAL

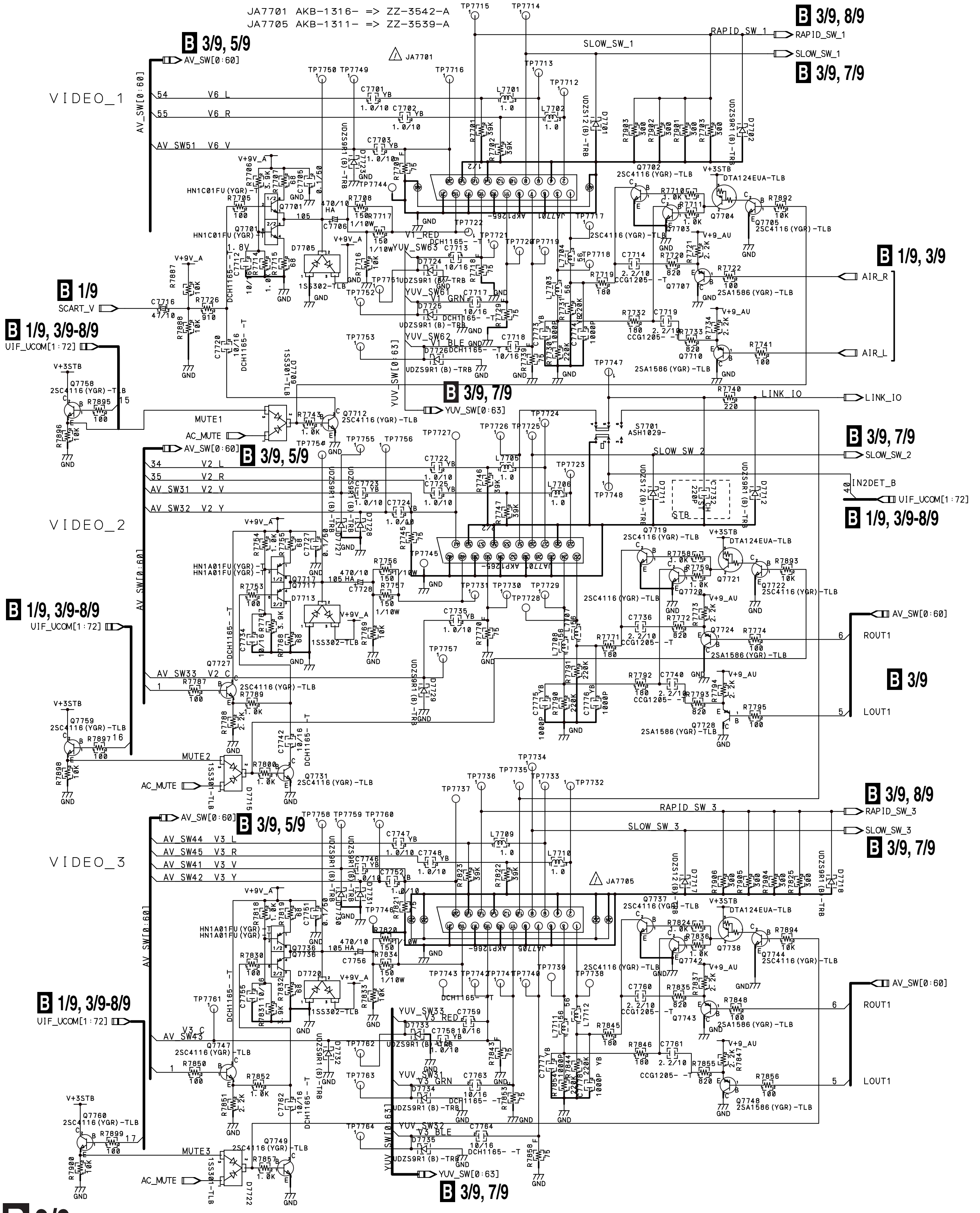
B 1/9


TUNER ···(DC)4.0V
TUNER ···(AC)1.0Vpp
Base Band Signal
Vpp:1.1±0.13V
SYNC:1.5V
STBY
AFC Adjust
AGC Adjust
L' AFC Adjust
2ND SIF
IC7501
TDA9818TS-TBB
SIF2
SIF1
TOP
VP
GND
VCO2
VCO1
AFC
CVBS
CBL
TAGC
FMIN
VIF1
VIF2
STD(1)
CVAGC
CSAGC
TPLL
LADJ(1)
AF
VDE-EM
CDE-EM
CDEC
CSS
L7501
LCTAW100J2520-T
F7501
VTF1183-
5.5MHZ
F7508
T-VTF034
6MHZ
F7509
6.5MHZ
L7504
VTL1164-
V+9V_A
V+5V_TUNER
V+9AIR
V+3COM
Q7533
Q7534
Q7535
Q7538
Q7502
Q7506
Q7537
Q7504
Q7505
Q7503
Q7512
Q7513
Q7514
Q7519
Q7520
Q7522
Q7524
Q7527
Q7528
Q7531
Q7532
2SC4116(YGR)-TLB
2SA1586(YGR)-TLB
DTA124EUA-TLB
DTC124EUA-TLB
D7504
1SS355-TRB
VR7502
VR7503
VR7504
CCP1390-
CCP1392-
CCP1398
ACH1394-
N106BL
N1065U
N104TS
N104B3
N0262E
N023BT
TP7501
TP7502
TP7504
TP7505
TP7510
AIR_V
B 2/9
SCART_V
B 3/9
AIR_HS
B 5/9
AIR_AFT
B 5/9
OTHERS_M
L_LDASH
LDASH/L
AIR_R
AIR_L
B 2/9, 3/9
UIF_UCOM[1:72]
MSP_RESET
9V
GND
①
②

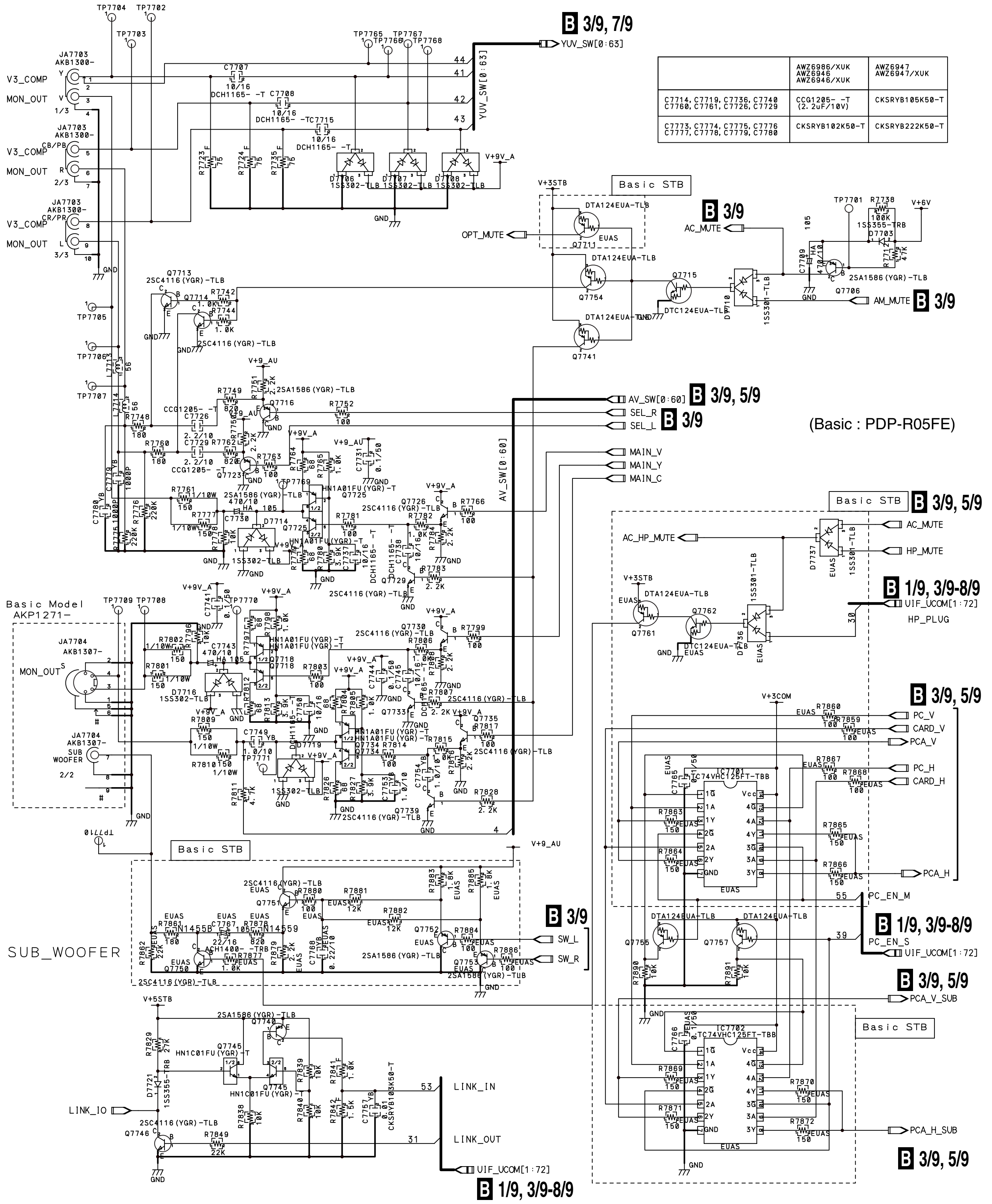
3.16 AV BOARD ASSY (2/9)

B 2/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● AV I/O BLOCK


JA7701 AKB-1316- => ZZ-3542-A
JA7705 AKB-1311- => ZZ-3539-A
B 3/9, 8/9
RAPID_SW_1
SLOW_SW_1
B 3/9, 7/9
B 3/9, 5/9
AV_SW[0:60]
VIDEO_1
54 V6 L
55 V6 R
AV SW51 V6 V
JA7701
B 1/9, 3/9
AIR_R
AIR_L
B 1/9
SCART_V
B 1/9, 3/9-8/9
UIF_UCOM[1:72]
MUTE1
AC_MUTE
YUV_SW[0:63]
LINK_IO
S7701 ASH1029-
SLOW_SW_2
IN2DET_B
STB
VIDEO_2
34 V2 L
35 V2 R
AV SW31 V2 V
AV SW32 V2 Y
AV SW33 V2 C
MUTE2
ROUT1
LOUT1
B 3/9
RAPID_SW_3
SLOW_SW_3
VIDEO_3
AV SW44 V3 L
AV SW45 V3 R
AV SW41 V3 V
AV SW42 V3 Y
AV SW43 V3 C
JA7705
MUTE3
V+9V_A
V+3STB
V+9_AU
GND
2SC4116 (YGR) -TLB
2SA1586 (YGR) -TLB
DTA124EUA-TLB
HN1C01FU (YGR)
HN1A01FU (YGR)
1SS302-TLB
1SS301-TLB
UDZS9R1 (B) -TRB
UDZS12 (B) -TRB
DCH1165- -T
CCG1205- -T
AKP1266-

B 2/9


B 3/9, 7/9
YUV_SW[0:63]
V3_COMP
MON_OUT
JA7703
AKB1300-
1/3
2/3
3/3
Y
V
CB/PB
R
CR/PR
L
Basic STB
V+3STB
DTA124EUA-TLB
Q7711
OPT_MUTE
B 3/9
AC_MUTE
Q7754
Q7715
DTC124EUA-TLB
Q7741
1SS301-TLB
2SA1586(YGR)-TLB
Q7706
AM_MUTE
B 3/9
TP7701
R7738
100K
V+6V
D7703
AV_SW[0:60]
B 3/9, 5/9
SEL_R
SEL_L
B 3/9
(Basic : PDP-R05FE)
MAIN_V
MAIN_Y
MAIN_C
Basic STB
B 3/9, 5/9
AC_HP_MUTE
AC_MUTE
HP_MUTE
D7737
B 1/9, 3/9-8/9
UIF_UCOM[1:72]
HP_PLUG
Q7761
Q7762
B 3/9, 5/9
V+3COM
PC_V
CARD_V
PCA_V
PC_H
CARD_H
PCA_H
IC7701
TC74VHC125FT-TBB
PC_EN_M
B 1/9, 3/9-8/9
PC_EN_S
UIF_UCOM[1:72]
Q7756
Q7757
B 3/9, 5/9
PCA_V_SUB
Basic STB
IC7702
TC74VHC125FT-TBB
PCA_H_SUB
B 3/9, 5/9
Basic Model
AKP1271-
JA7704
AKB1307-
MON_OUT
SUB WOOFER
2/2
V+9_AU
Basic STB
SUB_WOOFER
B 3/9
SW_L
SW_R
V+5STB
LINK_IO
Q7745
HN1C01FU(YGR)-T
Q7740
Q7746
D7721
1SS355-TRB
53
LINK_IN
31
LINK_OUT
UIF_UCOM[1:72]
B 1/9, 3/9-8/9

	AWZ6986/XUK AWZ6946 AWZ6946/XUK	AWZ6947 AWZ6947/XUK
C7714, C7719, C7736, C7740 C7760, C7761, C7726, C7729	CCG1205- -T (2. 2uF/10V)	CKSRYB105K50-T
C7773, C7774, C7775, C7776 C7777, C7778, C7779, C7780	CKSRYB102K50-T	CKSRYB222K50-T

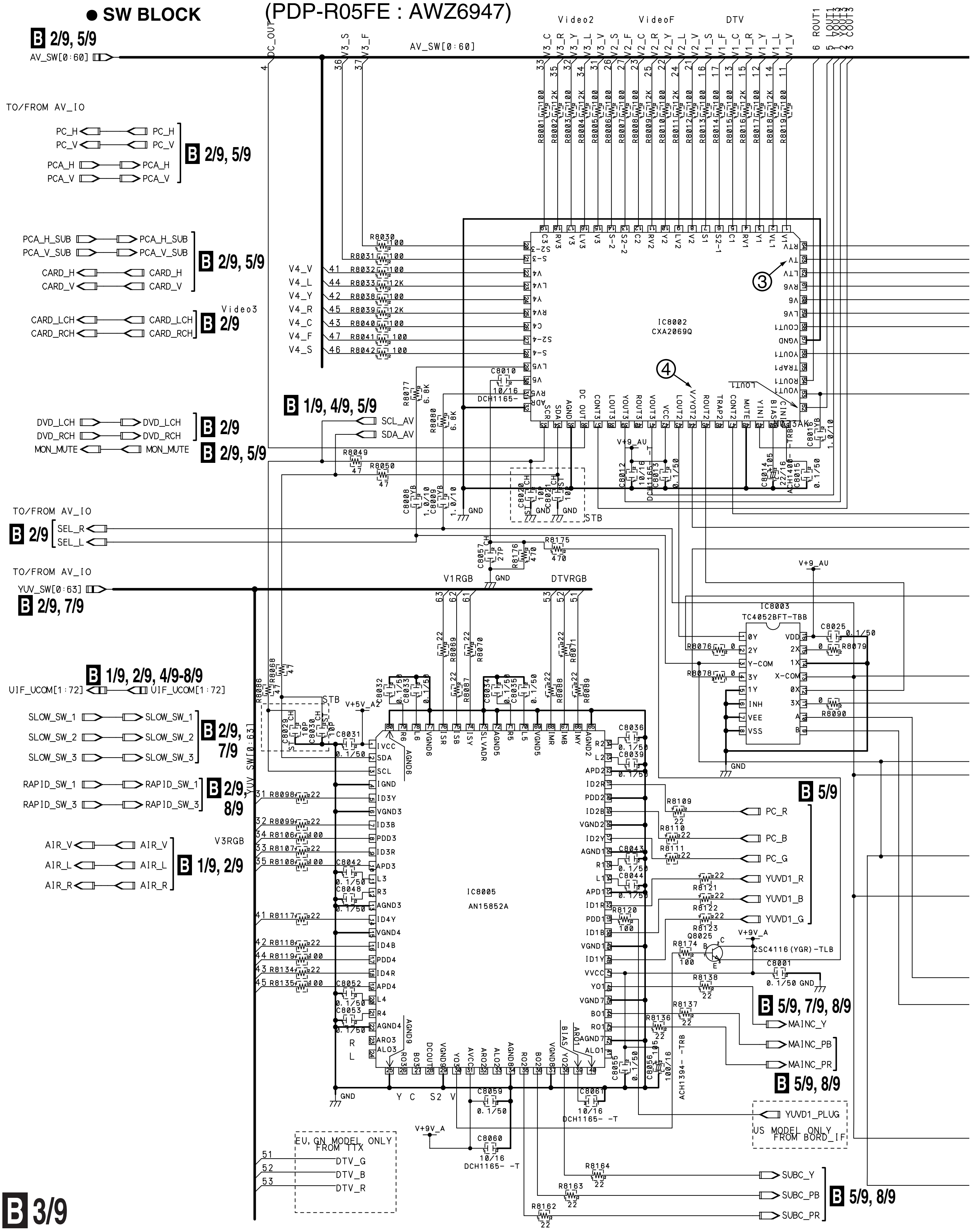
With the ⚠ mark, be sure to use parts of identical designation.

B 2/9

3.17 AV BOARD ASSY (3/9)

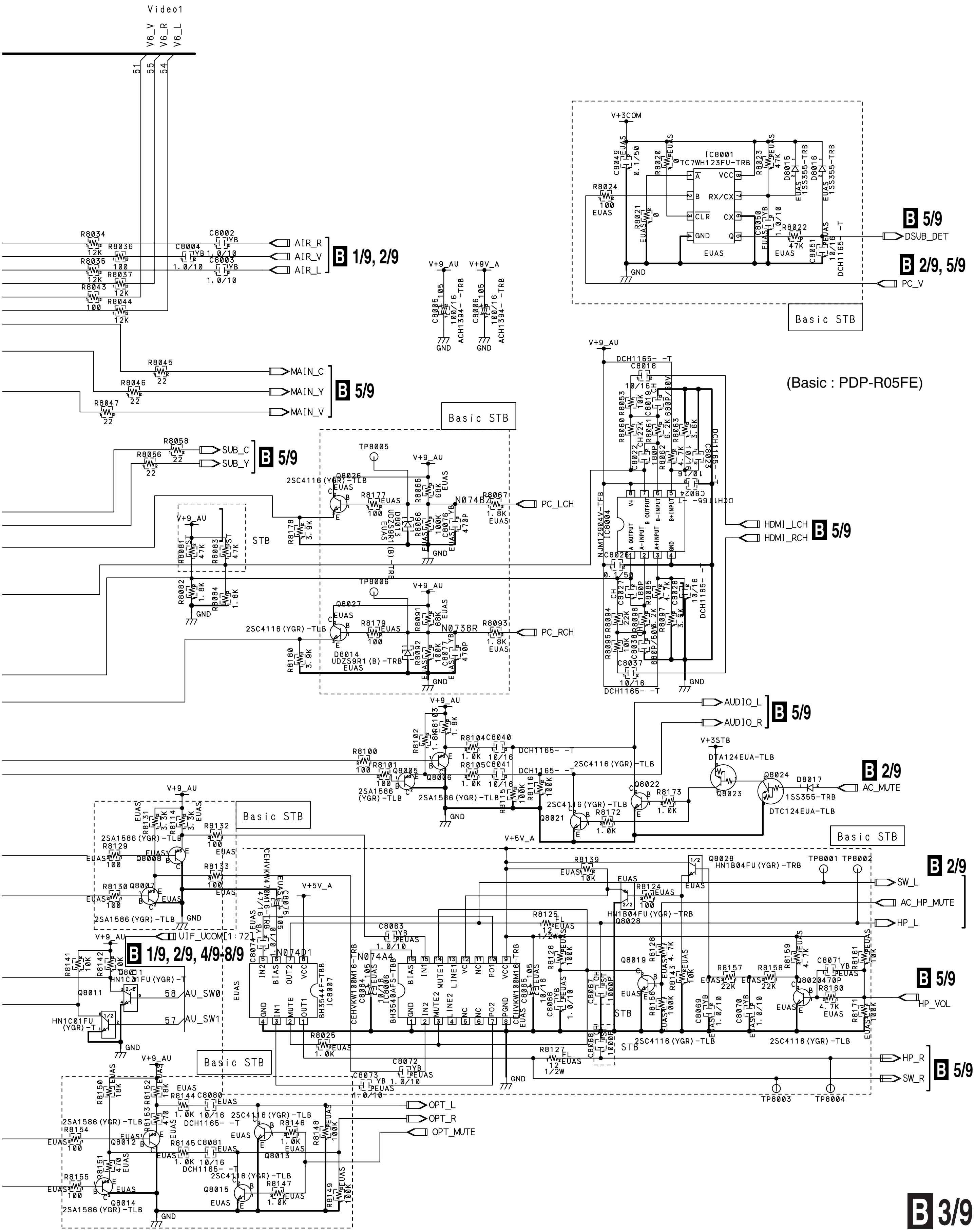
B 3/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● SW BLOCK



B 2/9, 5/9
AV_SW[0:60]
TO/FROM AV_IO
PC_H
PC_V
PCA_H
PCA_V
PCA_H_SUB
PCA_V_SUB
CARD_H
CARD_V
CARD_LCH
CARD_RCH
Video3
B 2/9
DVD_LCH
DVD_RCH
MON_MUTE
B 1/9, 4/9, 5/9
SCL_AV
SDA_AV
SEL_R
SEL_L
YUV_SW[0:63]
B 2/9, 7/9
B 1/9, 2/9, 4/9-8/9
UIF_UCOM[1:72]
SLOW_SW_1
SLOW_SW_2
SLOW_SW_3
RAPID_SW_1
RAPID_SW_3
B 2/9, 8/9
AIR_V
AIR_L
AIR_R
B 1/9, 2/9
V3RGB
DC_OUT
V3_S
V3_F
Video2
VideoF
DTV
IC8002
CXA2069Q
③
④
V4_V
V4_L
V4_Y
V4_R
V4_C
V4_F
V4_S
V1RGB
DTVRGB
IC8003
TC4052BFT-TBB
IC8005
AN15852A
Q8025
2SC4116(YGR)-TLB
V+9V_A
V+9_AU
V+5V_A
GND
STB
B 5/9
PC_R
PC_B
PC_G
YUVD1_R
YUVD1_B
YUVD1_G
B 5/9, 7/9, 8/9
MAINC_Y
MAINC_PB
MAINC_PR
B 5/9, 8/9
YUVD1_PLUG
US MODEL ONLY
FROM BORD_IF
EU, GN MODEL ONLY
FROM TTX
DTV_G
DTV_B
DTV_R
SUBC_Y
SUBC_PB
SUBC_PR

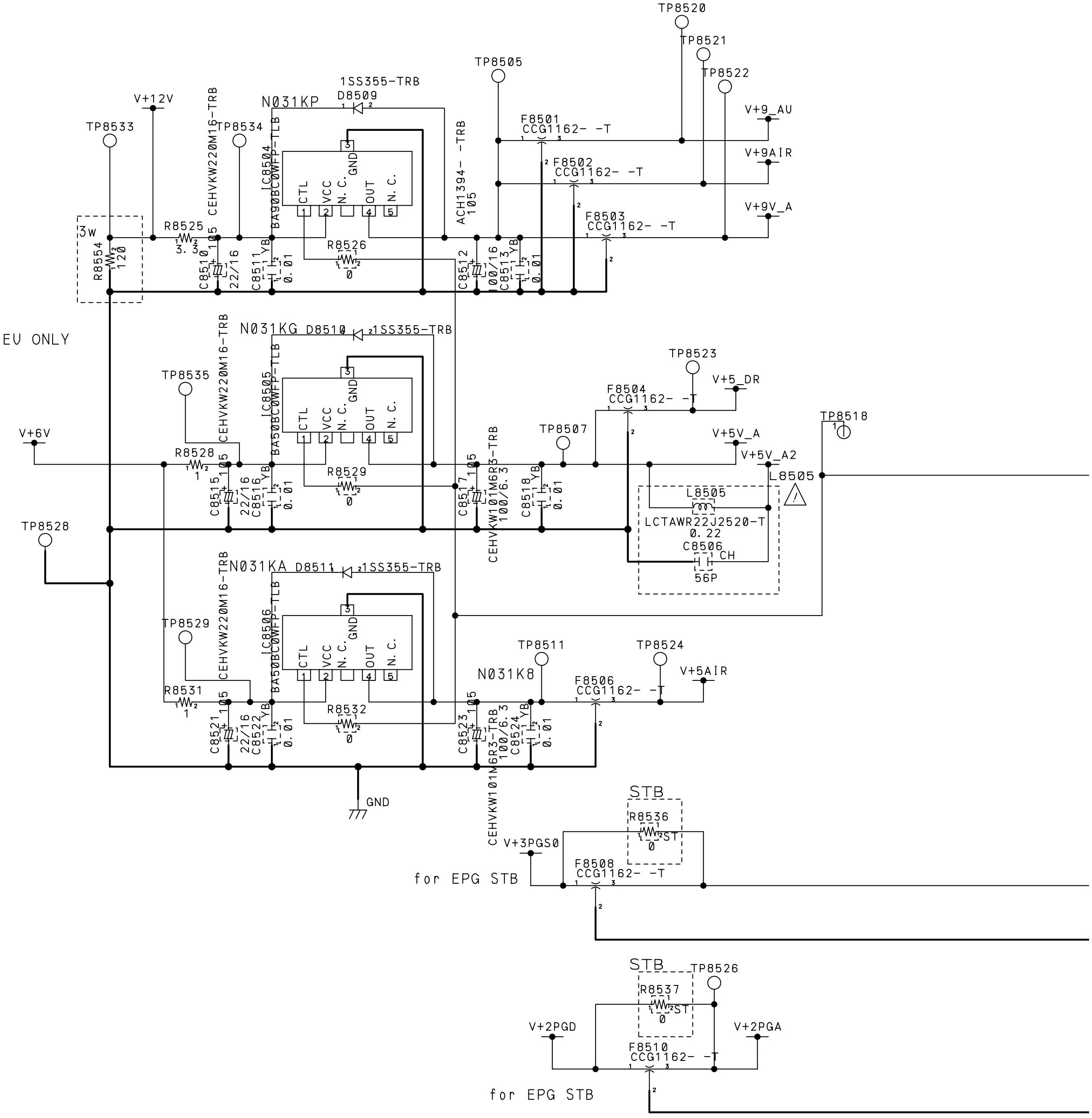
B 3/9

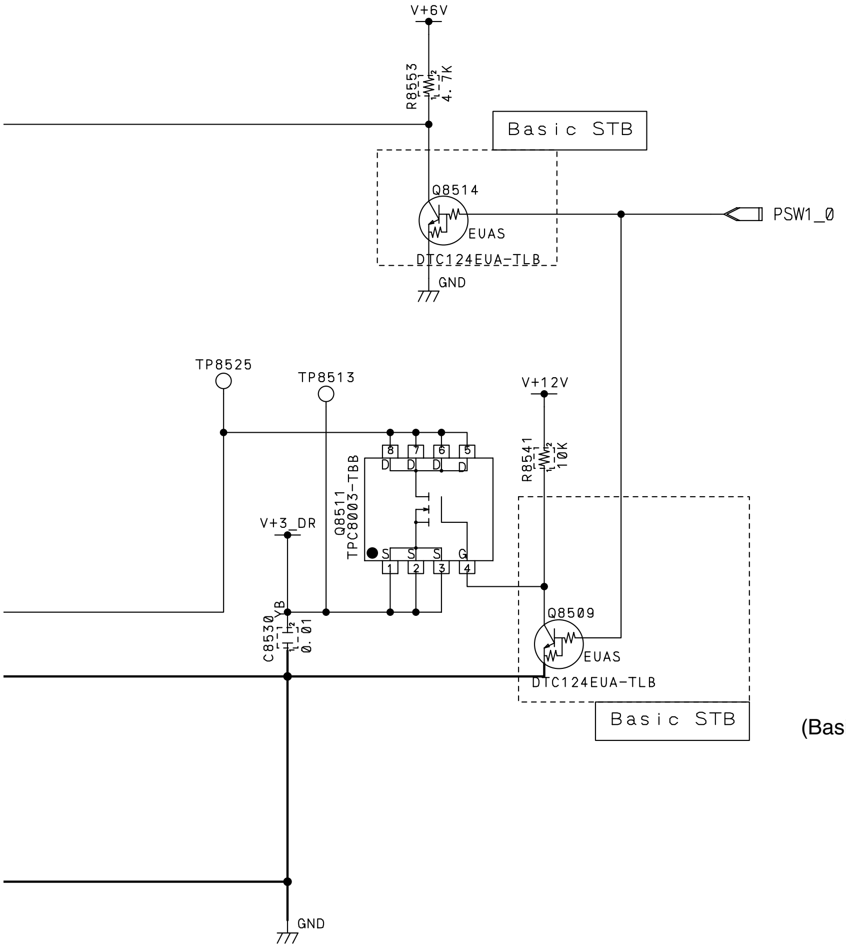

Video1
V6_V
V6_R
V6_L
51
55
54
R8034 12K
R8036 100
R8035 12K
R8037 12K
R8043 100
R8044 12K
C8004 YB 1.0/10
C8002 YB 1.0/10
C8003 YB 1.0/10
AIR_R
AIR_V
AIR_L
B 1/9, 2/9
R8045 22
R8046 22
R8047 22
MAIN_C
MAIN_Y
MAIN_V
B 5/9
R8058 22
R8056 22
SUB_C
SUB_Y
B 5/9
V+9_AU
V+9V_A
C8005 105 100/16 ACH1394- -TRB
C8006 105 100/16 ACH1394- -TRB
GND
V+3COM
C8049 EUAS 0.1/50
R8020 EUAS 0
IC8001 TC7WH123FU-TRB
VCC
A
B
RX/CX
CLR
CX
GND
Q
R8023 EUAS 47K
D8015 1SS355-TRB EUAS
D8016 1SS355-TRB EUAS
R8024 100 EUAS
R8021 EUAS 0
C8050 EUAS YB 1.0/10
R8022 47K EUAS
C8051 EUAS 10/16 DCH1165- -T
DSUB_DET
B 5/9
B 2/9, 5/9
PC_V
Basic STB
(Basic : PDP-R05FE)
TP8005
Q8026 2SC4116(YGR)-TLB EUAS
R8177 EUAS 100
R8065 68K EUAS
IC8002 NJM4580V-TE2
R8067 1.8K EUAS
PC_LCH
R8178 3.9K
D8013 UDZS9R1(B)-TRB EUAS
R8066 100K EUAS
C8076 YB 470P
Basic STB
STB
R8081 47K
R8083 47K
R8082 1.8K
R8084 1.8K
TP8006
Q8027 2SC4116(YGR)-TLB EUAS
R8179 EUAS 100
R8091 68K EUAS
R8093 1.8K EUAS
PC_RCH
R8180 3.9K
D8014 UDZS9R1(B)-TRB EUAS
R8092 100K
C8077 YB 470P
V+9_AU
DCH1165- -T
C8018 10/16
R8053 10K
R8060 CH 22K
R8061 CH
C8019 680P/50V
C8022 CH 180P
R8062 6.2K
R8063 4.7K
C8023 3.6K 10/16
C8024 DCH1165- -T
IC8004 NJM12904V-TFB
V+
B OUTPUT
B-INPUT
B+INPUT
A OUTPUT
A-INPUT
A+INPUT
GND
C8026 0.1/50
C8027 CH 180P
R8085 4.7K
R8094 22K
R8096 6.2K
R8097 3.6K
C8028 10/16 DCH1165- -T
R8095 10K
C8036 680P/50V
C8037 10/16 DCH1165- -T
HDMI_LCH
HDMI_RCH
B 5/9
AUDIO_L
AUDIO_R
B 5/9
R8103 1.8K
R8102 1.8K
R8104 1.0K
C8040 10/16 DCH1165- -T
R8100 100
R8101 100
Q8005 2SA1586(YGR)-TLB
Q8006 2SA1586(YGR)-TLB
R8105 1.0K
C8041 10/16 DCH1165- -T
R8115 100K
R8116 100K
2SC4116(YGR)-TLB
Q8022
R8173 1.0K
R8172 1.0K
Q8021 2SC4116(YGR)-TLB
V+3STB
DTA124EUA-TLB
Q8023
Q8024 DTC124EUA-TLB
D8017 1SS355-TRB
AC_MUTE
B 2/9
Basic STB
R8131 EUAS 3.3K
R8114 EUAS 3.3K
R8132 100 EUAS
2SA1586(YGR)-TLB
R8129 EUAS 100
Q8008 EUAS
R8133 100 EUAS
R8130 EUAS 100
Q8007 EUAS
2SA1586(YGR)-TLB
CEHVKW470M16-TRB 47/16
C8075 EUAS 105 1.0/10
V+5V_A
C8074 EUAS YB 1.0/10
IC8007 BH3544F-TBB N074D1
IN2 BIAS OUT2 VCC
GND IN1 MUTE OUT1
Basic STB
V+5V_A
R8139 EUAS 10K
Q8028 HN1B04FU(YGR)-TRB
R8124 100 EUAS
HN1B04FU(YGR)-TRB Q8028
TP8001 TP8002
SW_L
AC_HP_MUTE
HP_L
B 2/9
C8063 YB EUAS 1.0/10
R8125 FL EUAS 12 1/2W
CEHVKW100M16-TRB
C8064 EUAS 105 10/16
C8066 EUAS
IC8005 BH3540AFS-TBB N074A4
BIAS IN1 MUTE1 VC NC PO1 VCC
GND IN2 MUTE2 LINE2 NC NC PO2 PGND LINE1
CEHVKW100M16-TRB
C8065 EUAS 10/16
C8068 YB 1.0/10
R8126 100K
C8067 CH 1000P
R8128 4.7K
R8143 4.7K
Q8019 EUAS
R8156 100K
R8158 22K
R8157 22K
R8159 4.7K
C8071 YB 470P EUAS
R8161 10K
Q8020 EUAS
R8160 4.7K EUAS
R8171 100K
C8069 YB 1.0/10
C8070 YB 1.0/10
C8068 CH 1000P
STB
2SC4116(YGR)-TRB
2SC4116(YGR)-TLB
HP_VOL
B 5/9
R8025 1.0K EUAS
R8127 FL EUAS 12 1/2W
HP_R
SW_R
B 5/9
C8072 YB 1.0/10
C8073 YB EUAS 1.0/10
GND
TP8003
TP8004
V+9_AU
UIF_UCOM[1:72]
B 1/9, 2/9, 4/9-8/9
R8141 10K
R8142 10K
Q8011
Q8010 HN1C01FU(YGR)-T
58 AU_SW0
57 AU_SW1
HN1C01FU (YGR)-T
Basic STB
R8150 EUAS 18K
R8152 EUAS 18K
R8144 1.0K EUAS
C8080 10/16 DCH1165- -T EUAS
R8153 EUAS 470
2SA1586(YGR)-TLB
R8154 EUAS 100
Q8012
R8145 1.0K EUAS
C8081 10/16 DCH1165- -T
Q8013 2SC4116(YGR)-TLB EUAS
R8146 1.0K EUAS
R8148 EUAS 100K
OPT_L
OPT_R
OPT_MUTE
R8151 EUAS 470
R8155 EUAS 100
Q8014 2SA1586(YGR)-TLB
Q8015 2SC4116(YGR)-TLB EUAS
R8147 1.0K EUAS
R8149 EUAS 100K
GND

B 3/9

3.18 AV BOARD ASSY (4/9)

B 4/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986)
● **AV_REG BLOCK** (PDP-R05FE : AWZ6947)


TP8520
TP8521
TP8522
TP8505
1SS355-TRB
D8509
N031KP
V+12V
TP8533
TP8534
CEHVKW220M16-TRB
IC8504
BA90BC0WFP-TLB
CTL
VCC
N. C.
GND
OUT
N. C.
ACH1394- -TRB
105
F8501
CCG1162- -T
F8502
CCG1162- -T
F8503
CCG1162- -T
V+9_AU
V+9AIR
V+9V_A
3W
R8554
120
R8525
3. 3
C8510
22/16
C8511
YB
0. 01
R8526
0
C8512
100/16
C8513
0. 01
EU ONLY
N031KG
D8510
1SS355-TRB
TP8535
IC8505
BA50BC0WFP-TLB
TP8523
V+5_DR
F8504
CCG1162- -T
V+6V
R8528
1
C8515
22/16
C8516
0. 01
R8529
0
C8517
CEHVKW101M6R3-TRB
100/6. 3
C8518
0. 01
TP8507
V+5V_A
V+5V_A2
TP8518
L8505
LCTAWR22J2520-T
0. 22
C8506
CH
56P
TP8528
N031KA
D8511
1SS355-TRB
TP8529
IC8506
BA50BC0WFP-TLB
R8531
1
C8521
22/16
C8522
0. 01
R8532
0
C8523
100/6. 3
C8524
0. 01
N031K8
TP8511
TP8524
V+5AIR
F8506
CCG1162- -T
GND
STB
R8536
0
ST
V+3PGS0
F8508
CCG1162- -T
for EPG STB
STB
TP8526
R8537
0
ST
V+2PGD
V+2PGA
F8510
CCG1162- -T
for EPG STB



V+6V
R8553
1/16W
4.7K
Basic STB
Q8514
EUAS
DTC124EUA-TLB
GND
PSW1_0
TP8525
TP8513
V+12V
Q8511
TPC8003-TBB
R8541
1/16W
10K
V+3_DR
C8530
1/16
YB
0.01
Q8509
EUAS
DTC124EUA-TLB
Basic STB
GND

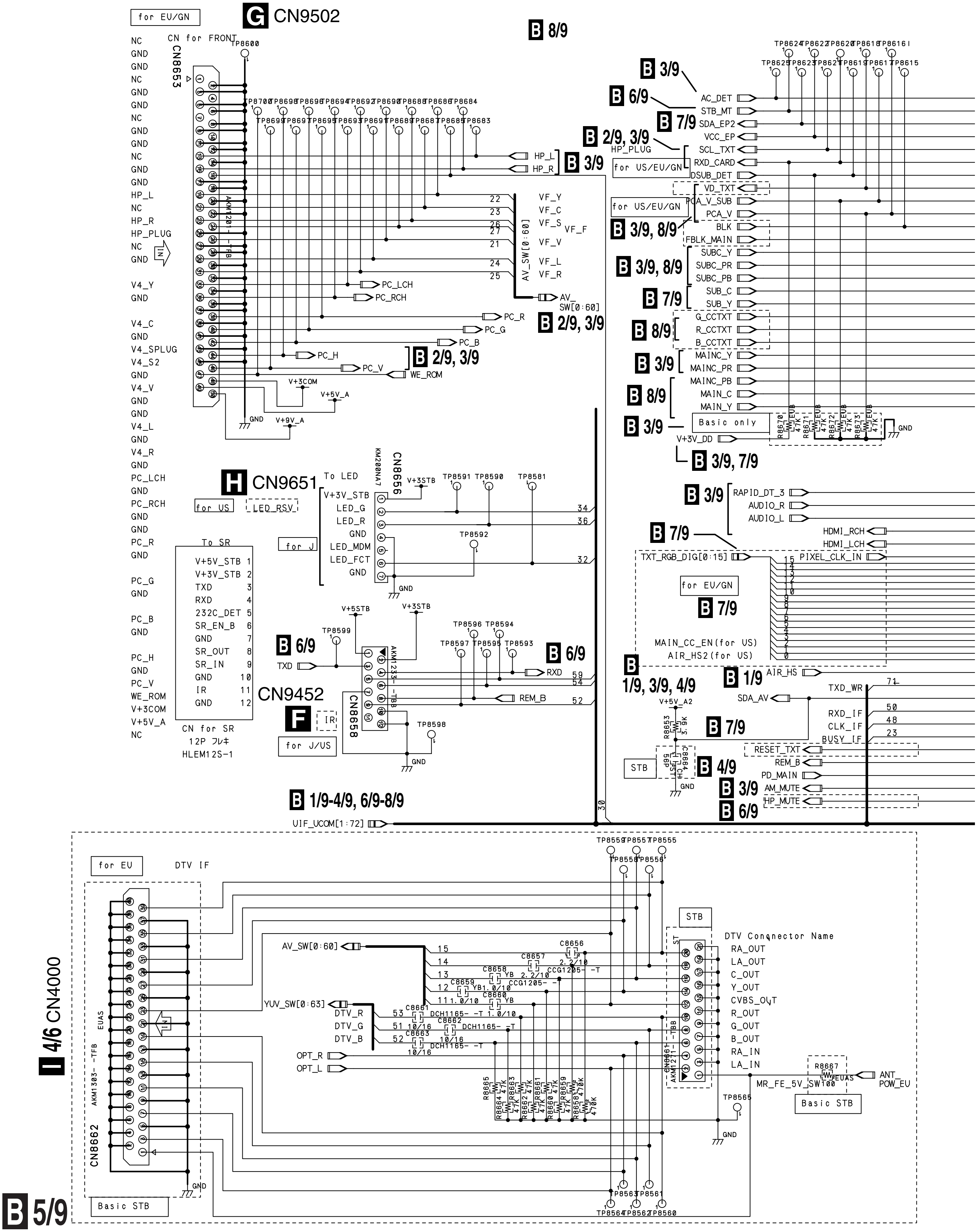
(Basic : PDP-R05FE)

With the ⚠ mark, be sure to use parts of identical designation.

B 4/9

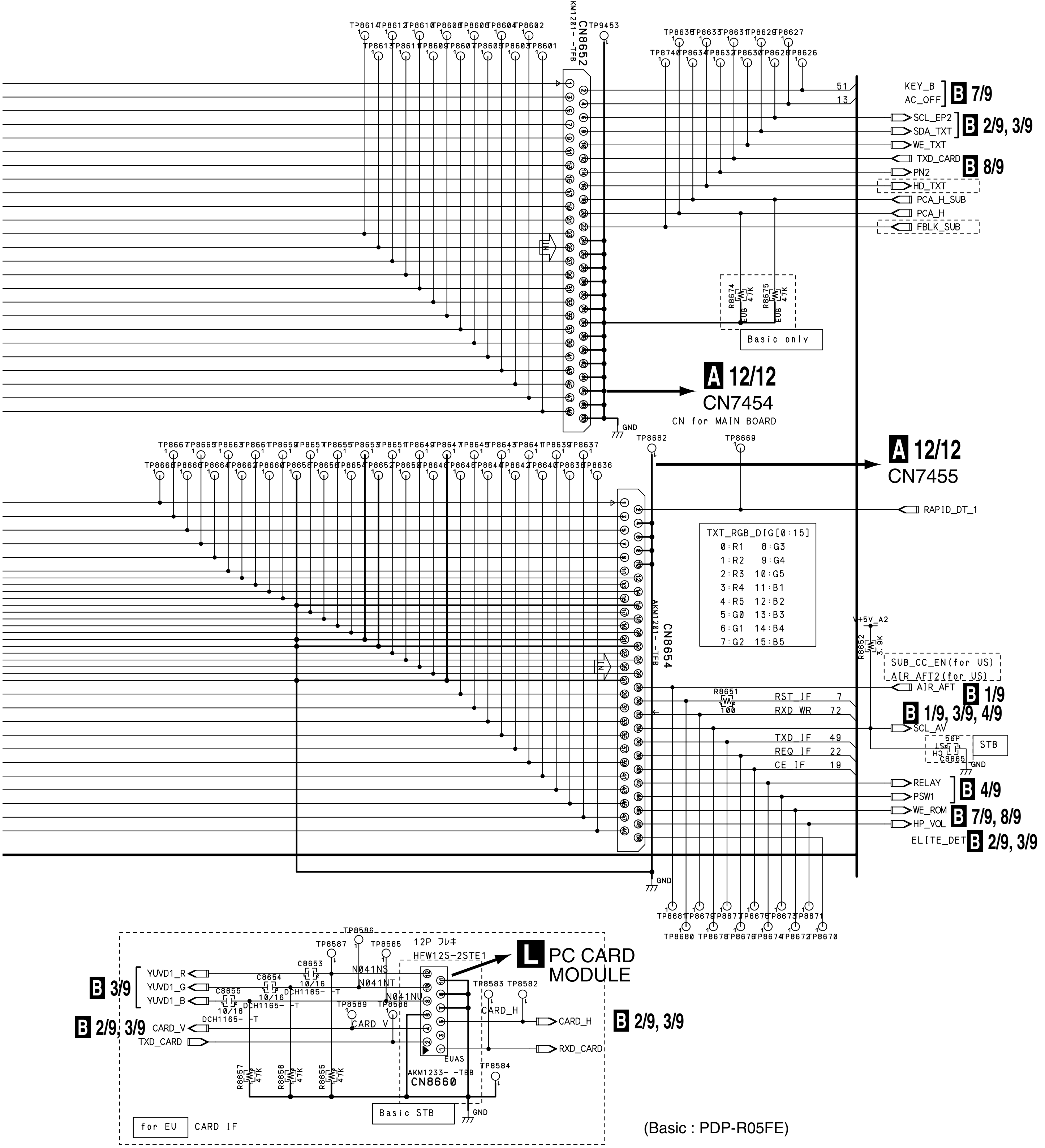
3.19 AV BOARD ASSY (5/9)

● IF BLOCK


for EU/GN
G CN9502
CN for FRONT
CN8653
TP8600
NC
GND
HP_L
HP_R
HP_PLUG
IN
V4_Y
V4_C
V4_SPLUG
V4_S2
V4_V
V4_L
V4_R
PC_LCH
PC_RCH
PC_R
PC_G
PC_B
PC_H
PC_V
WE_ROM
V+3COM
V+5V_A
AKM1201-TFB
V+9V_A
HP_L
HP_R
B 3/9
B 8/9
VF_Y
VF_C
VF_S
VF_F
VF_V
VF_L
VF_R
AV_SW[0:60]
B 2/9, 3/9
B 3/9
B 6/9
B 7/9
B 2/9, 3/9
HP_PLUG
for US/EU/GN
AC_DET
STB_MT
SDA_EP2
VCC_EP
SCL_TXT
RXD_CARD
DSUB_DET
VD_TXT
PCA_V_SUB
PCA_V
BLK
FBLK_MAIN
B 3/9, 8/9
SUBC_Y
SUBC_PR
SUBC_PB
SUB_C
SUB_Y
G_CCTXT
R_CCTXT
B_CCTXT
MAINC_Y
MAINC_PR
MAINC_PB
MAIN_C
MAIN_Y
Basic only
V+3V_DD
B 3/9, 7/9
R8670 R8671 R8672 R8673 47K
GND
H CN9651
for US
LED_RSV
To LED
CN8656
KM200NA7
V+3V_STB
LED_G
LED_R
LED_MDM
LED_FCT
for J
To SR
V+5V_STB
TXD
RXD
232C_DET
SR_EN_B
SR_OUT
SR_IN
IR
CN for SR
12P フレキ
HLEM12S-1
B 6/9
CN9452
F IR
for J/US
CN8658
AKM1233-TBB
RXD
REM_B
V+5STB
B 6/9
B 3/9
RAPID_DT_3
AUDIO_R
AUDIO_L
HDMI_RCH
HDMI_LCH
B 7/9
TXT_RGB_DIG[0:15]
PIXEL_CLK_IN
for EU/GN
MAIN_CC_EN(for US)
AIR_HS2(for US)
B 1/9, 3/9, 4/9
B 1/9
AIR_HS
SDA_AV
TXD_WR
RXD_IF
CLK_IF
BUSY_IF
V+5V_A2
R8653 3.9K
B 7/9
RESET_TXT
STB
C8664
B 4/9
REM_B
PD_MAIN
B 3/9
AM_MUTE
HP_MUTE
B 6/9
B 1/9-4/9, 6/9-8/9
UIF_UCOM[1:72]
for EU
DTV IF
I 4/6 CN4000
CN8662
AKM1303-TFB
EUAS
Basic STB
AV_SW[0:60]
YUV_SW[0:63]
DTV_R
DTV_G
DTV_B
OPT_R
OPT_L
C8656 C8657 C8658 C8659 C8660 C8661 C8662 C8663
CCG1205
DCH1165
R8658 R8659 R8660 R8661 R8662 R8663 R8664 R8665 47K 470K
STB
CN8661
AKM1211-TBB
DTV Connector Name
RA_OUT
LA_OUT
C_OUT
Y_OUT
CVBS_OUT
R_OUT
G_OUT
B_OUT
RA_IN
LA_IN
R8667
MR_FE_5V_SW100
ANT_POW_EU
Basic STB
TP8565
GND

B 5/9

B 5/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

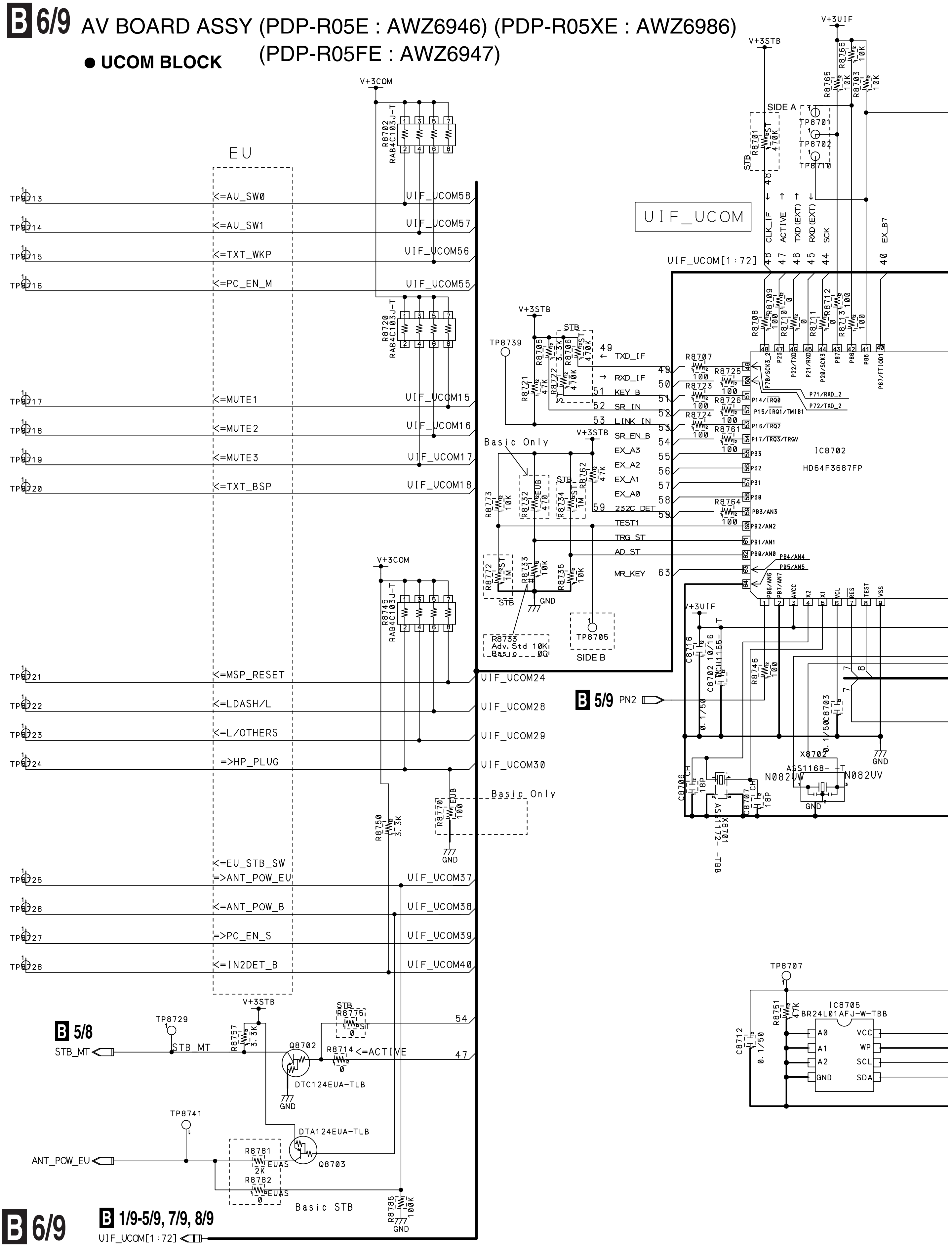

CN8652
AKM1201- -TFB
TP9453
TP8614 TP8612 TP8610 TP8608 TP8606 TP8604 TP8602
TP8613 TP8611 TP8609 TP8607 TP8605 TP8603 TP8601
TP8635 TP8633 TP8631 TP8629 TP8627
TP8740 TP8634 TP8632 TP8630 TP8628 TP8626
51
13
KEY_B
AC_OFF
B 7/9
SCL_EP2
SDA_TXT
B 2/9, 3/9
WE_TXT
TXD_CARD
PN2
B 8/9
HD_TXT
PCA_H_SUB
PCA_H
FBLK_SUB
R8674 47K EUB
R8675 47K EUB
Basic only
A 12/12
CN7454
CN for MAIN BOARD
GND
TP8682
TP8669
A 12/12
CN7455
RAPID_DT_1
TP8667 TP8665 TP8663 TP8661 TP8659 TP8657 TP8655 TP8653 TP8651 TP8649 TP8647 TP8645 TP8643 TP8641 TP8639 TP8637
TP8668 TP8666 TP8664 TP8662 TP8660 TP8658 TP8656 TP8654 TP8652 TP8650 TP8648 TP8646 TP8644 TP8642 TP8640 TP8638 TP8636
CN8654
AKM1201- -TFB
TXT_RGB_DIG[0:15]
0:R1 8:G3
1:R2 9:G4
2:R3 10:G5
3:R4 11:B1
4:R5 12:B2
5:G0 13:B3
6:G1 14:B4
7:G2 15:B5
+5V_A2
R8652 3.9K
SUB_CC_EN(for US)
AIR_AFT2(for US)
AIR_AFT
B 1/9
R8651 100
RST_IF 7
RXD_WR 72
TXD_IF 49
REQ_IF 22
CE_IF 19
B 1/9, 3/9, 4/9
SCL_AV
56P
C8665
STB
GND
RELAY
PSW1
B 4/9
WE_ROM
HP_VOL
B 7/9, 8/9
ELITE_DET
B 2/9, 3/9
GND
TP8681 TP8679 TP8677 TP8675 TP8673 TP8671
TP8680 TP8678 TP8676 TP8674 TP8672 TP8670
TP8586
TP8587 TP8585
12P フレキ
HFW12S-2STE1
L PC CARD MODULE
B 3/9
YUVD1_R
YUVD1_G
YUVD1_B
C8653 10/16
C8654 10/16
C8655 10/16
N041NS
N041NT
N041NU
DCH1165- -T
DCH1165- -T
DCH1165- -T
TP8589 TP8588
TP8583 TP8582
CARD_H
CARD_V
B 2/9, 3/9
CARD_V
TXD_CARD
CARD_H
B 2/9, 3/9
RXD_CARD
EUAS
AKM1233- -TBB
CN8660
TP8584
R8657 47K
R8656 47K
R8655 47K
Basic STB
GND
for EU
CARD IF

(Basic : PDP-R05FE)

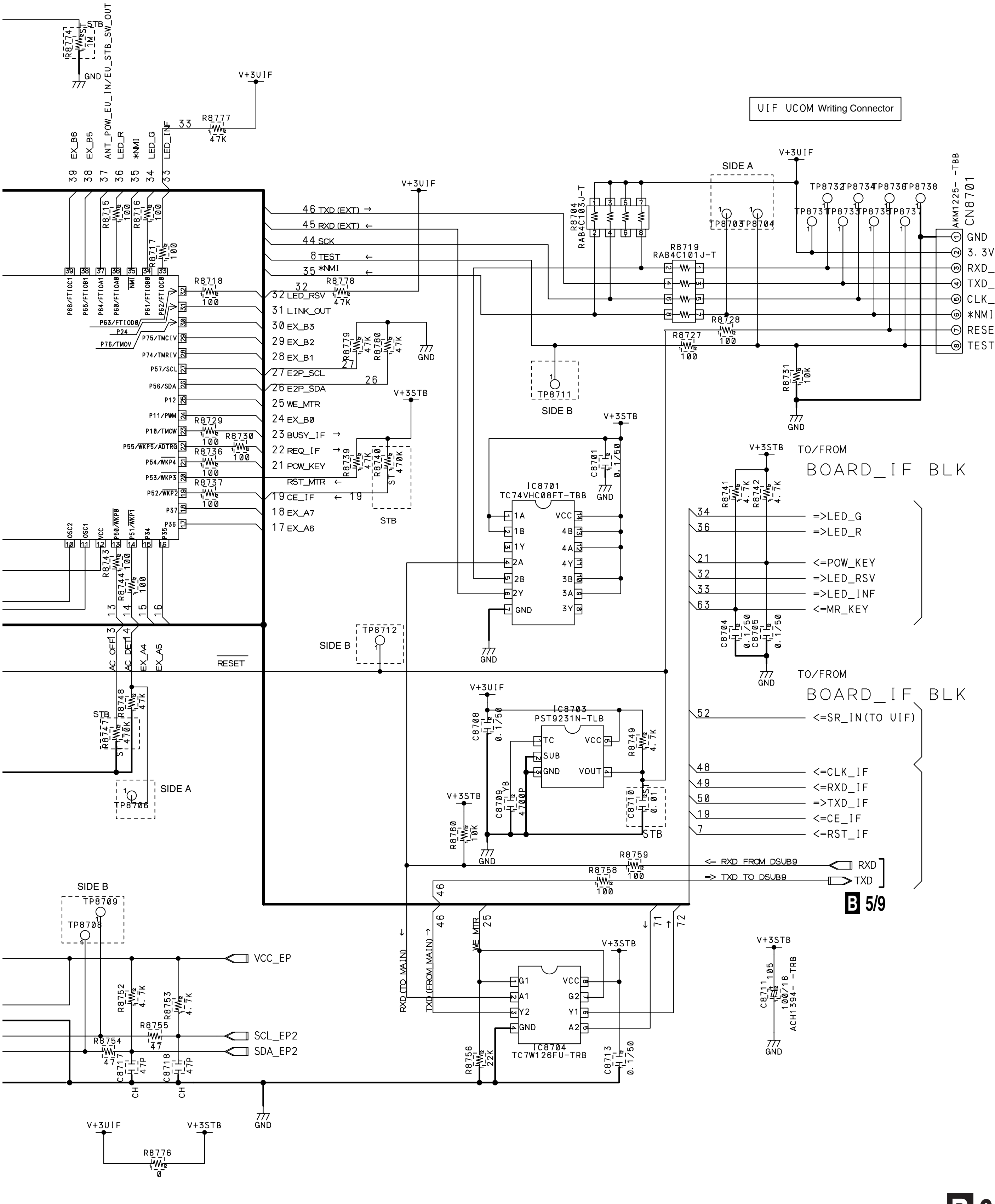
3.20 AV BOARD ASSY (6/9)

B 6/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986)
(PDP-R05FE : AWZ6947)

● **UCOM BLOCK**



V+3COM
R8702 RAB4C103J-T
EU
TP8713 <=AU_SW0 VIF_UCOM58
TP8714 <=AU_SW1 VIF_UCOM57
TP8715 <=TXT_WKP VIF_UCOM56
TP8716 <=PC_EN_M VIF_UCOM55
R8720 RAB4C103J-T
TP8717 <=MUTE1 VIF_UCOM15
TP8718 <=MUTE2 VIF_UCOM16
TP8719 <=MUTE3 VIF_UCOM17
TP8720 <=TXT_BSP VIF_UCOM18
V+3COM
R8745 RAB4C103J-T
TP8721 <=MSP_RESET VIF_UCOM24
TP8722 <=LDASH/L VIF_UCOM28
TP8723 <=L/OTHERS VIF_UCOM29
TP8724 =>HP_PLUG VIF_UCOM30
Basic Only
R8770 EUB 100
GND
R8750 3.3K
<=EU_STB_SW
TP8725 =>ANT_POW_EU VIF_UCOM37
TP8726 <=ANT_POW_B VIF_UCOM38
TP8727 =>PC_EN_S VIF_UCOM39
TP8728 <=IN2DET_B VIF_UCOM40
V+3STB
B 5/8
TP8729
STB_MT
R8757 3.3K
Q8702
DTC124EUA-TLB
STB R8775 ST 0
R8714 0 <=ACTIVE
54
47
TP8741
ANT_POW_EU
R8781 EUAS 2K
R8782 EUAS 0
Basic STB
DTA124EUA-TLB
Q8703
R8785 100K
GND
B 6/9
B 1/9-5/9, 7/9, 8/9
VIF_UCOM[1:72]
V+3STB
TP8739
R8721 47K
R8705 3.3K
R8722 470K
STB R8706 ST 470K
49 ← TXD_IF
→ RXD_IF
51 KEY_B
52 SR_IN
53 LINK_IN
SR_EN_B
EX_A3
EX_A2
EX_A1
EX_A0
59 232C_DET
TEST1
TRG_ST
AD_ST
MR_KEY
49 50 51 52 53 54 55 56 57 58 59 63
Basic Only
V+3STB
R8773 10K
R8732 EUB 470
STB R8734 ST 1M
R8762 47K
R8772 ST 1M
STB
R8733 10K
R8735 10K
GND
R8733 Adv,Std 10K Basic 0Ω
TP8705
SIDE B
UIF_UCOM
VIF_UCOM[1:72]
V+3STB
V+3UIF
R8766 10K
R8765 10K
R8703 10K
SIDE A
STB R8701 ST 470K
TP8701
TP8702
TP8710
48 CLK_IF
47 ACTIVE
46 TXD (EXT)
45 RXD (EXT)
44 SCK
40 EX_B7
R8708 100
R8709 100
R8710 0
R8711 0
R8712 0
R8713 100
R8707 100
R8725 100
R8723 100
R8726 100
R8724 100
R8761 100
R8764 100
IC8702
HD64F3687FP
P70/SCK3_2
P14/IRQ0
P15/IRQ1/TMIB1
P16/IRQ2
P17/IRQ3/TRGV
P33 P32 P31 P30
PB3/AN3 PB2/AN2 PB1/AN1 PB0/AN0
PB4/AN4 PB5/AN5
PB6/AN6 PB7/AN7 AVCC X2 X1 VCL RES TEST VSS
P71/RXD_2 P72/TXD_2
P23 P22/TXD P21/RXD P20/SCK3 P87 P86 P85 P67/FTIOD1
V+3UIF
C8716 0.1/50
C8702 10/16 TCH1165
R8746 100
B 5/9 PN2
C8703 0.1/50
X8702 ASS1168-T N082UV
GND
C8706 CH 18P
X8701 ASS1172-TBB
C8707 CH 18P
GND
TP8707
R8751 4.7K
C8712 0.1/50
IC8705
BR24L01AFJ-W-TBB
A0 A1 A2 GND VCC WP SCL SDA



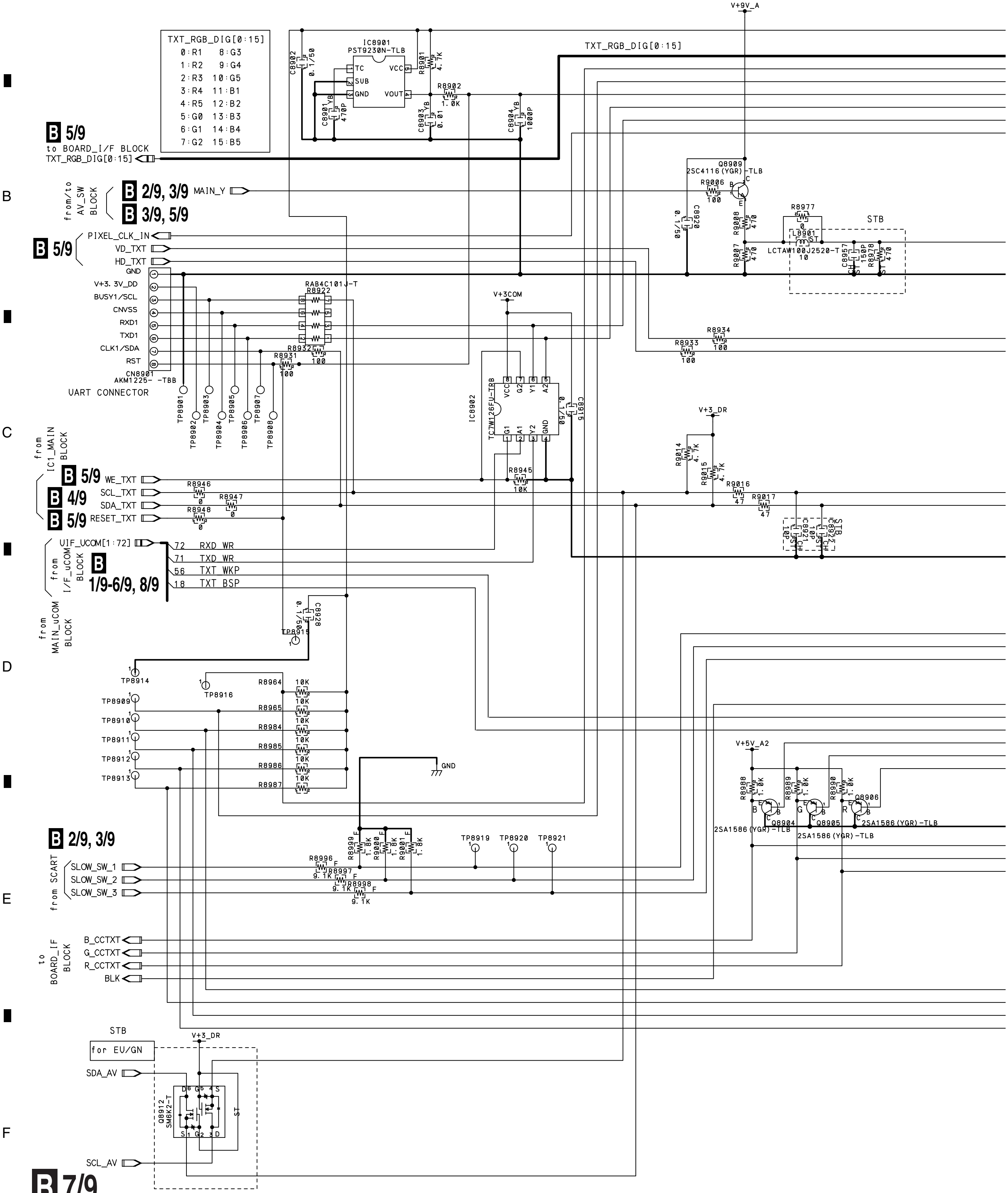
UIF UCOM Writing Connector
V+3UIF
V+3STB
SIDE A
SIDE B
STB
GND
R8774 1M
EX_B6
EX_B5
ANT_POW_EU_IN/EU_STB_SW_OUT
LED_R
*NMI
LED_G
LED_INF
R8777 47K
R8715 100
R8716 100
R8717 100
R8718 100
R8778 47K
R8779 47K
R8780 47K
R8729 100
R8730 100
R8736 100
R8737 100
R8739 47K
R8740 470k
R8743 100
R8744 100
R8747 470K
R8748 47K
P66/FTIOC1
P65/FTIOB1
P64/FTIOA1
P60/FTIOA0
NMI
P61/FTIOB0
P62/FTIOC0
P63/FTIOD0
P24
P76/TMOV
P75/TMCIV
P74/TMRIV
P57/SCL
P56/SDA
P12
P11/PWM
P10/TMOW
P55/WKP5/ADTRG
P54/WKP4
P53/WKP3
P52/WKP2
P37
P36
OSC2
OSC1
VCC
P50/WKP0
P51/WKP1
P34
P35
46 TXD (EXT) →
45 RXD (EXT) ←
44 SCK
8 TEST ←
35 *NMI ←
32 LED_RSV
31 LINK_OUT
30 EX_B3
29 EX_B2
28 EX_B1
27 E2P_SCL
26 E2P_SDA
25 WE_MTR
24 EX_B0
23 BUSY_IF →
22 REQ_IF →
21 POW_KEY
RST_MTR ←
19 CE_IF ← 19
18 EX_A7
17 EX_A6
AC_OFF
AC_DET
EX_A4
EX_A5
RESET
TP8703
TP8704
TP8706
TP8708
TP8709
TP8711
TP8712
TP8731
TP8732
TP8733
TP8734
TP8735
TP8736
TP8737
TP8738
RAB4C103J-T R8704
R8719 RAB4C101J-T
R8727 100
R8728 100
R8731 10K
AKM1225- -TBB CN8701
① GND
② 3.3V
③ RXD_WR
④ TXD_WR
⑤ CLK_WR
⑥ *NMI
⑦ RESET
⑧ TEST
C8701 0.1/50
IC8701 TC74VHC08FT-TBB
1A 1B 1Y 2A 2B 2Y GND VCC 4B 4A 4Y 3B 3A 3Y
TO/FROM BOARD_IF BLK
R8741 4.7K
R8742 4.7K
34 =>LED_G
36 =>LED_R
21 <=POW_KEY
32 =>LED_RSV
33 =>LED_INF
63 <=MR_KEY
C8704 0.1/50
C8705 0.1/50
IC8703 PST9231N-TLB
TC SUB GND VCC VOUT
C8708 0.1/50
C8709 4700P YB
C8710 0.01
R8749 4.7K
R8760 10K
52 <=SR_IN(TO UIF)
48 <=CLK_IF
49 <=RXD_IF
50 =>TXD_IF
19 <=CE_IF
7 <=RST_IF
R8759 100
R8758 100
<= RXD FROM DSUB9
=> TXD TO DSUB9
RXD
TXD
B 5/9
RXD (TO MAIN)
TXD (FROM MAIN)
WE_MTR
IC8704 TC7W126FU-TRB
G1 A1 Y2 GND VCC G2 Y1 A2
R8756 22K
C8713 0.1/50
C8711 10S 100/16 ACH1394- -TRB
VCC_EP
SCL_EP2
SDA_EP2
R8752 4.7K
R8753 4.7K
R8754 47
R8755 47
C8717 47P CH
C8718 47P CH
R8776 0

B 6/9

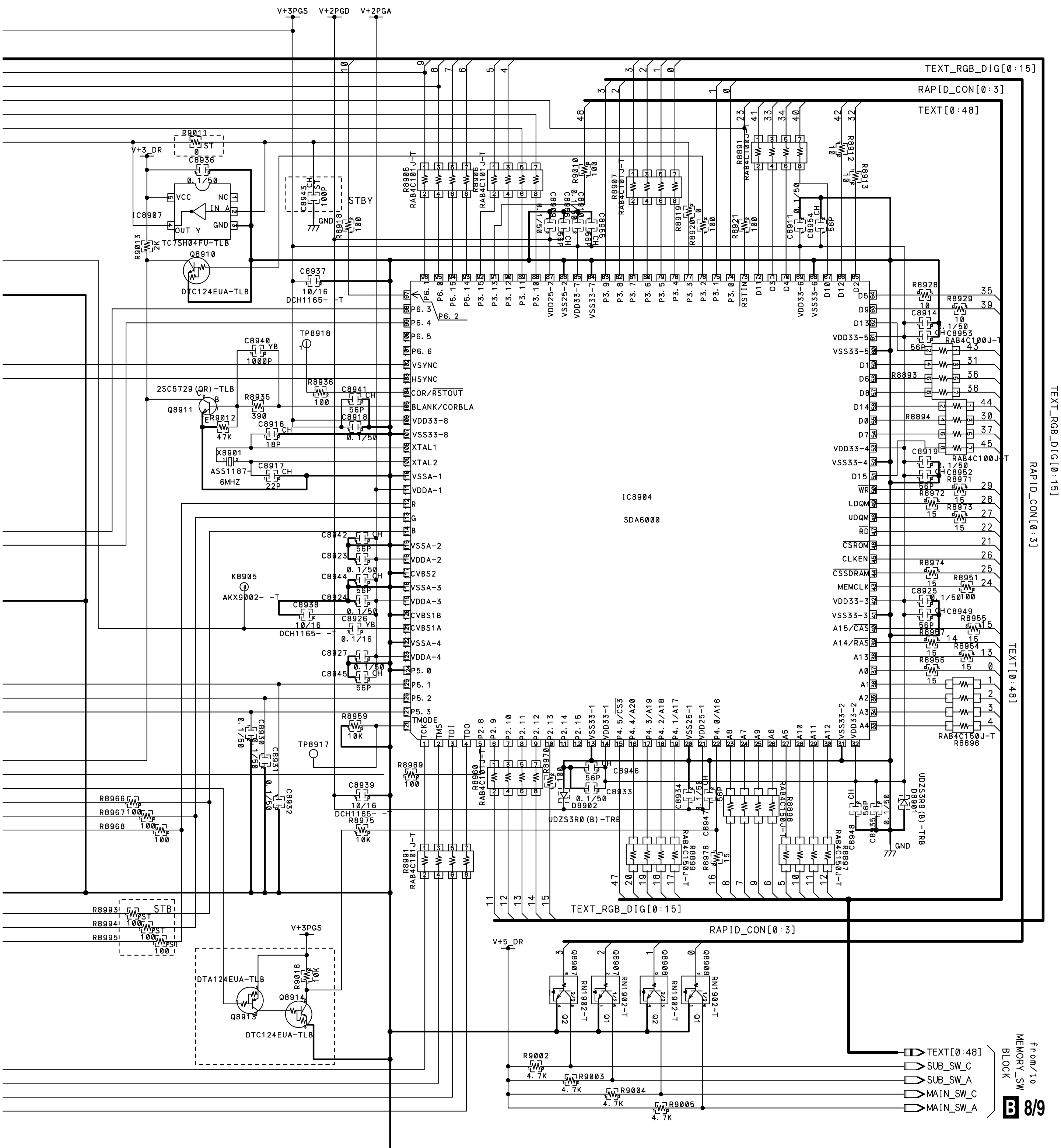
3.21 AV BOARD ASSY (7/9)

B 7/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● **TELE TEXT BLOCK**


A
B
C
D
E
F
TXT_RGB_DIG[0:15]
0:R1 8:G3
1:R2 9:G4
2:R3 10:G5
3:R4 11:B1
4:R5 12:B2
5:G0 13:B3
6:G1 14:B4
7:G2 15:B5
B 5/9
to BOARD_I/F BLOCK
TXT_RGB_DIG[0:15]
IC8901
PST9230N-TLB
TC
SUB
GND
VCC
VOUT
C8902 0.1/50
C8901 YB 470P
C8903 YB 0.01
C8904 YB 1000P
R8901 4.7K
R8902 1.0K
V+9V_A
from/to AV_SW BLOCK
B 2/9, 3/9
B 3/9, 5/9
MAIN_Y
B 5/9
PIXEL_CLK_IN
VD_TXT
HD_TXT
Q8909
2SC4116(YGR)-TLB
R9006 100
C8920 0.1/50
R9008 470
R9007 470
R8977 0
L8901
LCTAW100J2520-T
10
C8957 CH 150P
R8978 470
STB
GND
V+3.3V_DD
BUSY1/SCL
CNVSS
RXD1
TXD1
CLK1/SDA
RST
CN8901
AKM1225- -TBB
UART CONNECTOR
RAB4C101J-T
R8922
R8932 100
R8931 100
TP8901
TP8902
TP8903
TP8904
TP8905
TP8906
TP8907
TP8908
V+3COM
IC8902
TC7W126FU-TRB
VCC
G2
Y1
A2
G1
A1
Y2
GND
C8915 0.1/50
R8934 100
R8933 100
V+3_DR
R9014 4.7K
R9015 4.7K
R9016 47
R9017 47
C8921 CH 10P
C8922 CH 10P
STB
from IC1_MAIN BLOCK
B 5/9
B 4/9
B 5/9
WE_TXT
SCL_TXT
SDA_TXT
RESET_TXT
R8946 0
R8947 0
R8948 0
R8945 10K
from I/F_uCOM BLOCK
from MAIN_uCOM BLOCK
B 1/9-6/9, 8/9
UIF_UCOM[1:72]
72 RXD WR
71 TXD WR
56 TXT WKP
18 TXT BSP
C8928 0.1/50
TP8915
TP8914
TP8916
TP8909
TP8910
TP8911
TP8912
TP8913
R8964 10K
R8965 10K
R8984 10K
R8985 10K
R8986 10K
R8987 10K
GND
V+5V_A2
R8988 1.0K
R8989 1.0K
R8990 1.0K
Q8904
Q8905
Q8906
2SA1586(YGR)-TLB
2SA1586(YGR)-TLB
2SA1586(YGR)-TLB
B 2/9, 3/9
from SCART
SLOW_SW_1
SLOW_SW_2
SLOW_SW_3
R8996 9.1K F
R8997 9.1K F
R8998 9.1K F
R8999 1.8K F
R9000 1.8K F
R9001 1.8K F
TP8919
TP8920
TP8921
to BOARD_IF BLOCK
B_CCTXT
G_CCTXT
R_CCTXT
BLK
STB
for EU/GN
V+3_DR
SDA_AV
SCL_AV
Q8912
SM6K2-T
ST

B 7/9


V+3PGS
V+2PGD
V+2PGA
TEXT_RGB_DIG[0:15]
RAPID_CON[0:3]
TEXT[0:48]
IC8904
SDA6000
IC8907
TC7SH04FU-TLB
R9011
C8936
0.1/50
Q8910
DTC124EUA-TLB
R9013
2K
C8943
100P
STBY
R8918
100
C8937
10/16
DCH1165- -T
R8905
RAB4C101J-T
R8906
R8907
R9010
R8919
R8920
R8921
R8891
RAB4C100J-T
R8912
R8913
C8911
C8954
56P
C8940
1000P
TP8918
2SC5729(QR)-TLB
Q8911
R8935
390
R8936
R9012
47K
C8941
C8918
C8916
18P
X8901
ASS1187
6MHZ
C8917
22P
C8942
C8923
C8944
C8924
C8938
C8926
C8927
C8945
K8905
AKX9002- -T
R8959
10K
TP8917
C8930
C8931
C8932
R8969
C8939
R8975
R8991
R8960
R8970
C8946
C8933
D8902
UDZS3R0(B)-TRB
C8934
C8947
R8976
R8899
R8898
R8897
RAB4C150J-T
C8948
C8935
D8901
UDZS9R9(B)-TRB
R8966
R8967
R8968
R8993
R8994
R8995
STB
DTA124EUA-TLB
Q8913
Q8914
R9018
R8928
R8929
C8914
C8953
RAB4C100J-T
R8893
R8894
C8919
C8952
R8971
R8972
R8973
R8974
R8951
C8925
C8949
R8955
R8957
R8954
R8956
R8896
RAB4C150J-T
V+5_DR
Q8907
Q8906
Q8908
Q8909
RN1902-T
R9002
R9003
R9004
R9005
4.7K
TEXT[0:48]
SUB_SW_C
SUB_SW_A
MAIN_SW_C
MAIN_SW_A
from/to MEMORY_SW BLOCK
B 8/9
GND

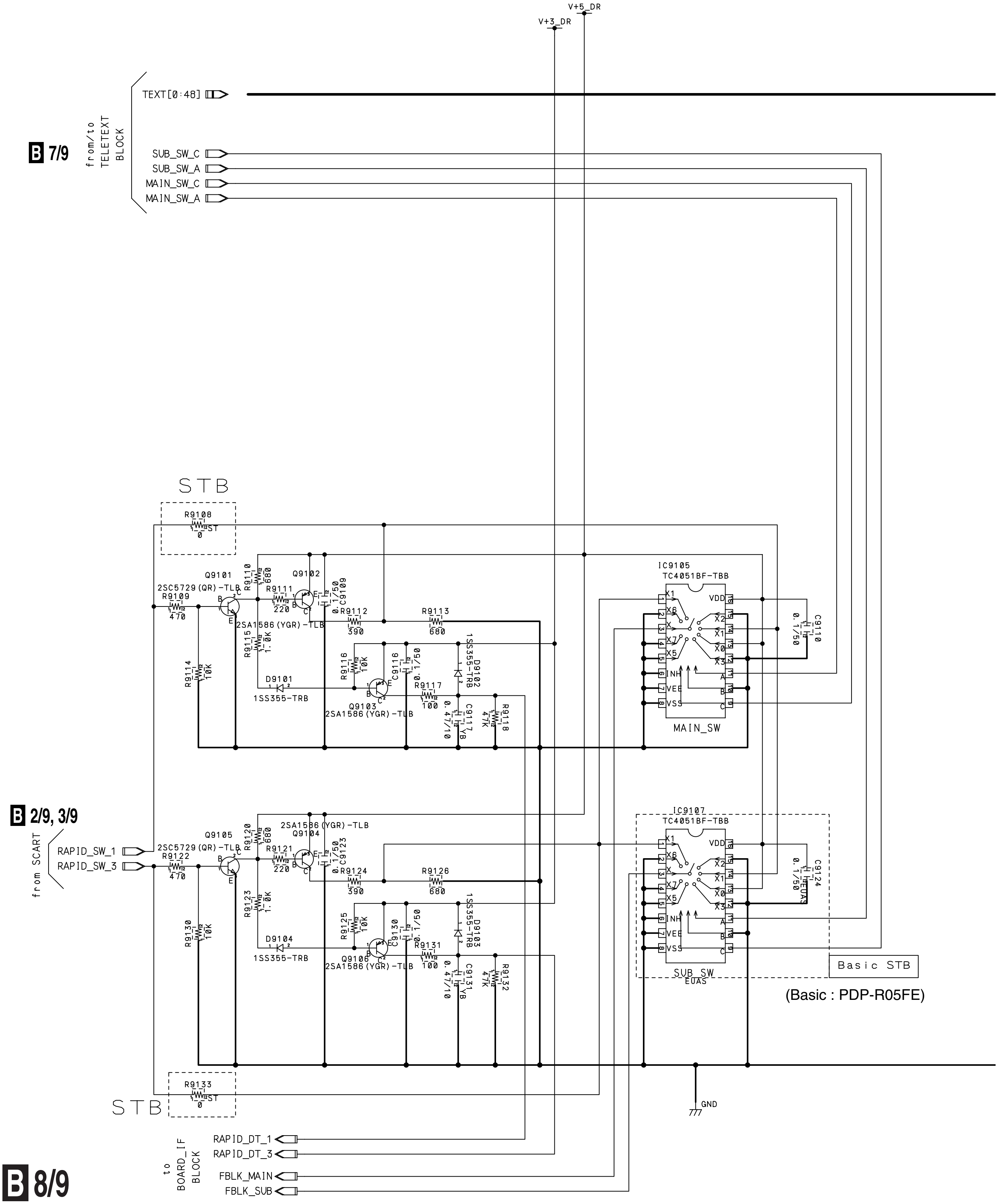
TEXT[0:47]

0:A0
1:A1
2:A2
3:A3
4:A4
5:A5
6:A6
7:A7
8:A8
9:A9
10:A10
11:A11
12:A12
13:A13
14:A14/RAS
15:A15/CAS
16:A16
17:A17
18:A18
19:A19
20:A20
21:/CSROM
22:/RD
23:/RSTIN
24:MEMCLK
25:/CSSDRAM
26:CLKEN
27:UDQM
28:LDQM
29:/WR
30:D0
31:D1
32:D2
33:D3
34:D4
35:D5
36:D6
37:D7
38:D8
39:D9
40:D10
41:D11
42:D12
43:D13
44:D14
45:D15
46:FLASH RY//BY
47:CS3
48:WR_PRTCT

3.22 AV BOARD ASSY (8/9)

B 8/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

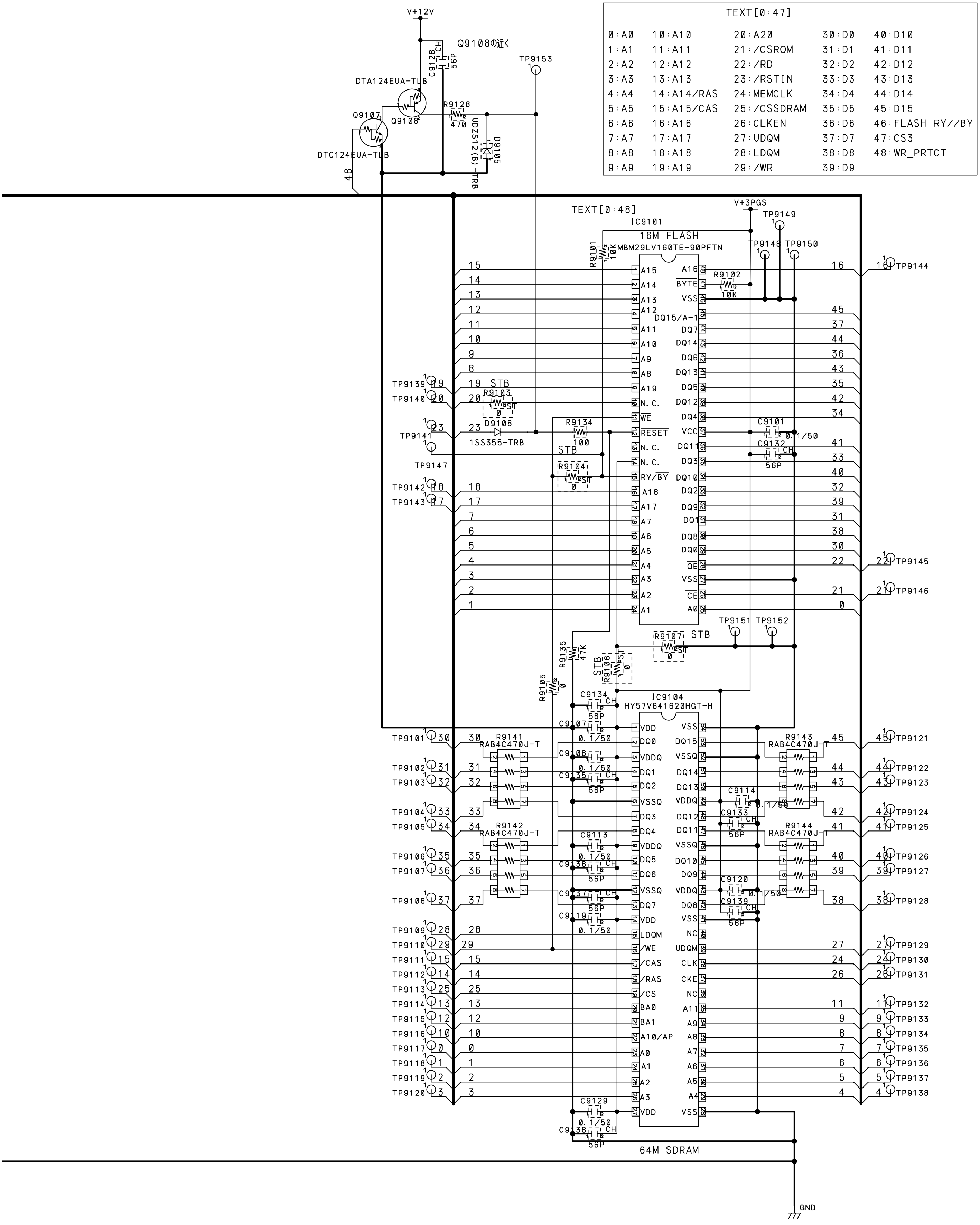
- **MEMORY_SW BLOCK**


V+5_DR
V+3_DR
TEXT[0:48]
B 7/9
from/to TELETEXT BLOCK
SUB_SW_C
SUB_SW_A
MAIN_SW_C
MAIN_SW_A
STB
R9108
ST
0
Q9101
2SC5729(QR)-TLB
R9109
470
R9110
680
Q9102
R9111
220
2SA1586(YGR)-TLB
C9109
0.1/50
R9112
390
R9113
680
R9115
1.0K
R9114
10K
R9116
10K
C9116
0.1/50
D9101
1SS355-TRB
Q9103
2SA1586(YGR)-TLB
R9117
100
C9117
0.47/10
YB
D9102
1SS355-TRB
R9118
4.7K
IC9105
TC4051BF-TBB
X1
X6
X
X7
X5
INH
VEE
VSS
VDD
X2
X1
X0
X3
A
B
C
C9110
0.1/50
MAIN_SW
B 2/9, 3/9
from SCART
RAPID_SW_1
RAPID_SW_3
Q9105
2SC5729(QR)-TLB
R9122
470
R9120
680
2SA1586(YGR)-TLB
Q9104
R9121
220
C9123
0.1/50
R9124
390
R9126
680
R9123
1.0K
R9130
10K
R9125
10K
C9130
0.1/50
D9104
1SS355-TRB
Q9106
2SA1586(YGR)-TLB
R9131
100
C9131
0.47/10
YB
D9103
1SS355-TRB
R9132
4.7K
IC9107
TC4051BF-TBB
C9124
0.1/50
EUAS
SUB_SW
EUAS
Basic STB
(Basic : PDP-R05FE)
GND
R9133
ST
0
STB
to BOARD_IF BLOCK
RAPID_DT_1
RAPID_DT_3
FBLK_MAIN
FBLK_SUB

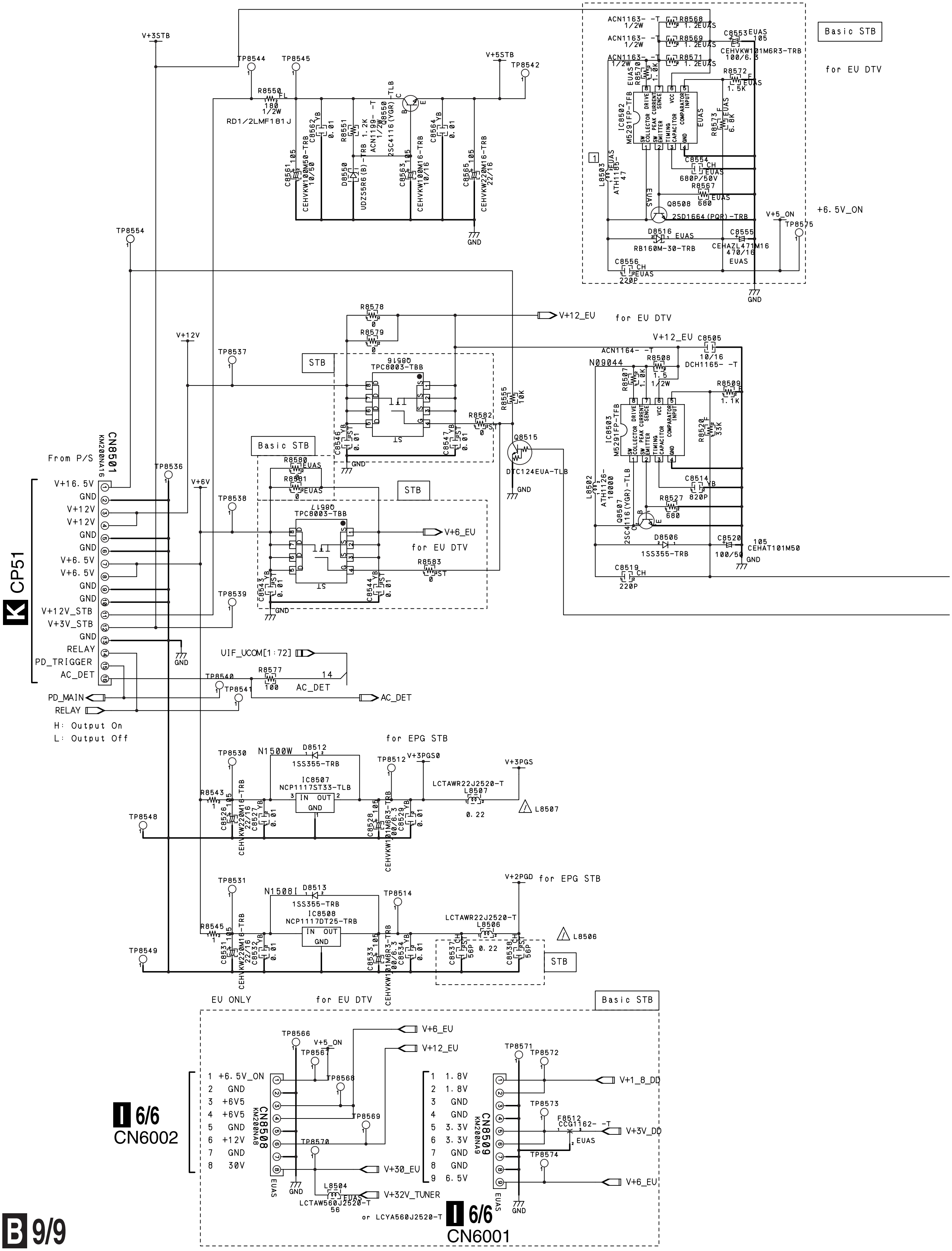
B 8/9

TEXT[0:47]

0:A0	10:A10	20:A20	30:D0	40:D10
1:A1	11:A11	21:/CSROM	31:D1	41:D11
2:A2	12:A12	22:/RD	32:D2	42:D12
3:A3	13:A13	23:/RSTIN	33:D3	43:D13
4:A4	14:A14/RAS	24:MEMCLK	34:D4	44:D14
5:A5	15:A15/CAS	25:/CSSDRAM	35:D5	45:D15
6:A6	16:A16	26:CLKEN	36:D6	46:FLASH RY//BY
7:A7	17:A17	27:UDQM	37:D7	47:CS3
8:A8	18:A18	28:LDQM	38:D8	48:WR_PRTCT
9:A9	19:A19	29:/WR	39:D9	


V+12V
C9128 56P CH
Q9108の近く
TP9153
DTA124EUA-TLB
Q9108
R9128 470
Q9107
DTC124EUA-TLB
UDZS12(B)-TRB
D9105
48
TEXT[0:48]
V+3PGS
TP9149
IC9101
16M FLASH
MBM29LV160TE-90PFTN
R9101 10K
TP9148
TP9150
R9102 10K
TP9144
A15 A14 A13 A12 A11 A10 A9 A8 A19 N.C. WE RESET N.C. N.C. RY/BY A18 A17 A7 A6 A5 A4 A3 A2 A1
A16 BYTE VSS DQ15/A-1 DQ7 DQ14 DQ6 DQ13 DQ5 DQ12 DQ4 VCC DQ11 DQ3 DQ10 DQ2 DQ9 DQ1 DQ8 DQ0 OE VSS CE A0
TP9139 TP9140 TP9141 TP9147 TP9142 TP9143
19 STB
R9103 0
D9106 1SS355-TRB
R9134 100
STB
R9104 0
C9101 0.1/50
C9132 56P CH
TP9145
TP9146
TP9151 TP9152
R9107 0 STB
R9135 47K
R9106 0 STB
R9105 0
IC9104
HY57V641620HGT-H
64M SDRAM
C9134 56P CH
C9107 0.1/50
C9108 0.1/50
C9135 56P CH
C9113 0.1/50
C9136 56P CH
C9137 56P CH
C9119 0.1/50
C9129 0.1/50
C9138 56P CH
C9114 0.1/50
C9133 56P CH
C9120 0.1/50
C9139 56P CH
R9141 RAB4C470J-T
R9142 RAB4C470J-T
R9143 RAB4C470J-T
R9144 RAB4C470J-T
VDD DQ0 VDDQ DQ1 DQ2 VSSQ DQ3 DQ4 VDDQ DQ5 DQ6 VSSQ DQ7 VDD LDQM /WE /CAS /RAS /CS BA0 BA1 A10/AP A0 A1 A2 A3 VDD
VSS DQ15 VSSQ DQ14 DQ13 VDDQ DQ12 DQ11 VSSQ DQ10 DQ9 VDDQ DQ8 VSS NC UDQM CLK CKE NC A11 A9 A8 A7 A6 A5 A4 VSS
TP9101 TP9102 TP9103 TP9104 TP9105 TP9106 TP9107 TP9108 TP9109 TP9110 TP9111 TP9112 TP9113 TP9114 TP9115 TP9116 TP9117 TP9118 TP9119 TP9120
TP9121 TP9122 TP9123 TP9124 TP9125 TP9126 TP9127 TP9128 TP9129 TP9130 TP9131 TP9132 TP9133 TP9134 TP9135 TP9136 TP9137 TP9138
GND

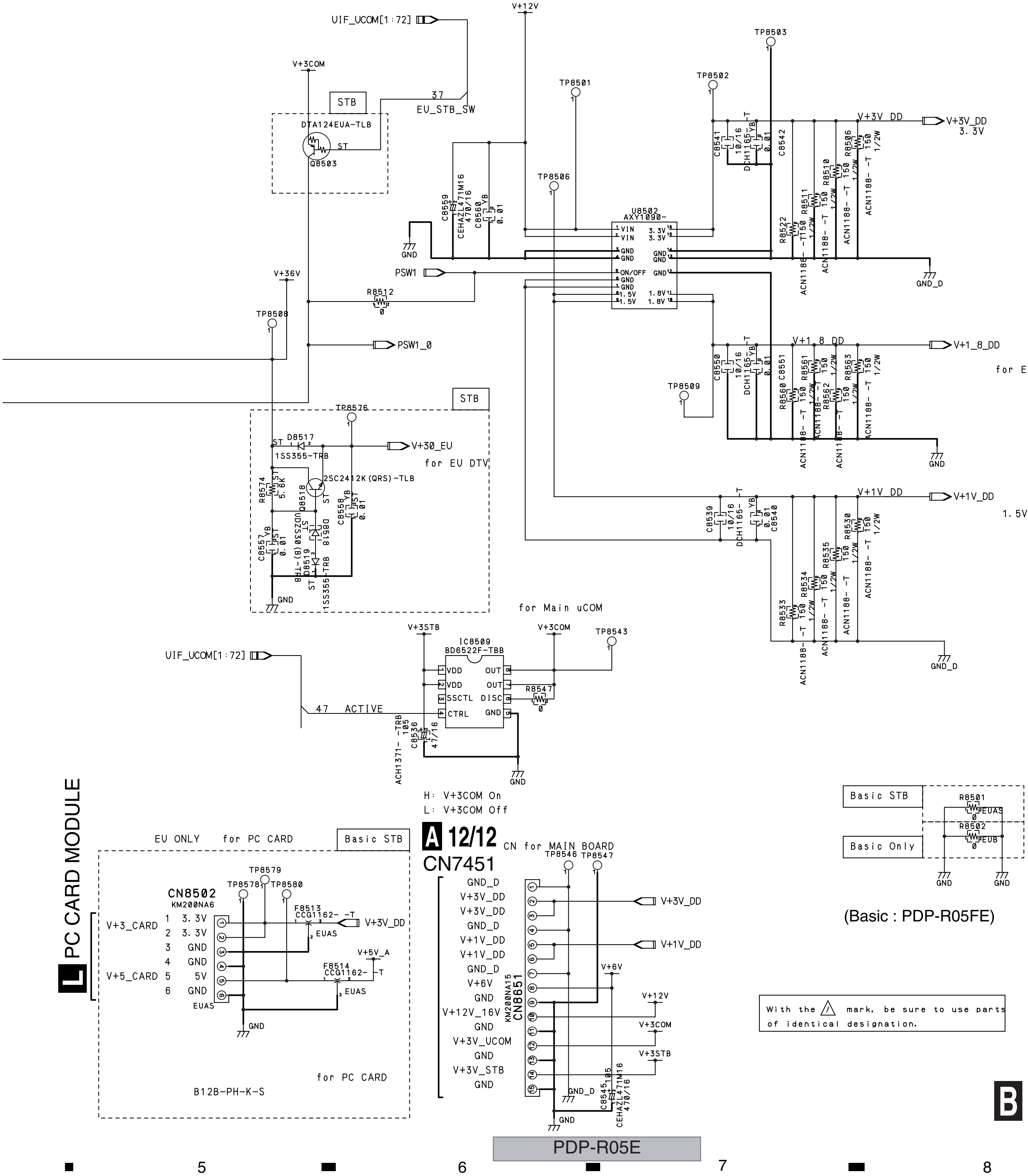
3.23 AV BOARD ASSY (9/9)



Basic STB
for EU DTV
ACN1163- -T 1/2W R8568 1.2 EUAS
ACN1163- -T 1/2W R8569 1.2 EUAS
ACN1163- -T 1/2W R8571 1.2 EUAS
C8553 EUAS 105
CEHVKW101M6R3-TRB 100/6.3
R8572 F 1.5K EUAS
R8570 1.0K EUAS
IC8502 M5291FP-TFB EUAS
R8573 F EUAS 6.8K
L8503 ATH1185- 47 EUAS
C8554 CH EUAS 680P/50V
R8567 680 EUAS
Q8508 2SD1664(PQR)-TRB EUAS
V+5_ON
+6.5V_ON
TP8575
D8516 EUAS RB160M-30-TRB
C8555 CEHAZL471M16 470/16 EUAS
C8556 CH EUAS 220P
GND
V+3STB
TP8544
TP8545
V+5STB
TP8542
R8550 FL 180 1/2W RD1/2LMF181J
Q8550 2SC4116(YGR)-TLB
C8562 YB 0.01
R8551 ACN1199- -T 1.2K 1/2W
C8564 YB 0.01
C8561 105 CEHVKW100M50-TRB 10/50
D8550 UDZS5R6(B)-TRB
C8563 105 CEHVKW100M16-TRB 10/16
C8565 105 CEHVKW220M16-TRB 22/16
TP8554
R8578 0
R8579 0
V+12_EU
for EU DTV
V+12V
TP8537
STB
IC8516 TPC8003-TBB
R8555 10K
R8582 0
Q8515 DTC124EUA-TLB
C8546 YB 0.01
C8547 YB 0.01
Basic STB
R8580 EUAS
R8581 EUAS 0
STB
IC8517 TPC8003-TBB
V+6_EU
for EU DTV
R8583 0
C8543 YB 0.01
C8544 YB 0.01
V+12_EU C8505 10/16
ACN1164- -T
N09044
R8508 1.5 1/2W
DCH1165- -T
R8507 1.0K
R8509 1.1K
IC8503 M5291FP-TFB
R8520 33K
L8502 ATH1126- 10000
C8514 YB 820P
R8527 680
Q8507 2SC4116(YGR)-TLB
D8506 1SS355-TRB
C8520 105 CEHAT101M50 100/50
C8519 CH 220P
From P/S
CN8501 KM200NA16
K CP51
V+16.5V
GND
V+12V
V+12V
GND
GND
V+6.5V
V+6.5V
GND
GND
V+12V_STB
V+3V_STB
GND
RELAY
PD_TRIGGER
AC_DET
TP8536
V+6V
TP8538
TP8539
UIF_UCOM[1:72]
TP8540
R8577 100
14
AC_DET
TP8541
PD_MAIN
AC_DET
RELAY
H: Output On
L: Output Off
for EPG STB
TP8530
N1500W
D8512 1SS355-TRB
IC8507 NCP1117ST33-TLB
IN OUT GND
TP8512
V+3PGS0
V+3PGS
LCTAWR22J2520-T L8507 0.22
L8507
R8543
C8526 105 CEHVKW220M16-TRB 22/16
C8527 YB 0.01
C8528 105 CEHVKW101M6R3-TRB 100/6.3
C8529 YB 0.01
TP8548
TP8531
N1508
D8513 1SS355-TRB
IC8508 NCP1117DT25-TRB
V+2PGD for EPG STB
TP8514
LCTAWR22J2520-T L8506 0.22
L8506
R8545
C8531 105 CEHVKW220M16-TRB 22/16
C8532 YB 0.01
C8533 105 CEHVKW101M6R3-TRB 100/6.3
C8534 YB 0.01
C8537 CH 56P
C8538 CH 56P
STB
TP8549
EU ONLY
for EU DTV
Basic STB
TP8566
V+5_ON
TP8567
V+6_EU
V+12_EU
TP8568
TP8569
TP8570
I 6/6 CN6002
1 +6.5V_ON
2 GND
3 +6V5
4 +6V5
5 GND
6 +12V
7 GND
8 30V
CN8508 KM200NA8 EUAS
V+30_EU
L8504 LCTAW560J2520-T 56 EUAS
V+32V_TUNER
or LCYA560J2520-T
I 6/6 CN6001
TP8571
TP8572
TP8573
TP8574
1 1.8V
2 1.8V
3 GND
4 GND
5 3.3V
6 3.3V
7 GND
8 GND
9 6.5V
CN8509 KM200NA9 EUAS
F8512 CCG1162- -T EUAS
V+1_8_DD
V+3V_DD
V+6_EU
GND
B 9/9

B 9/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

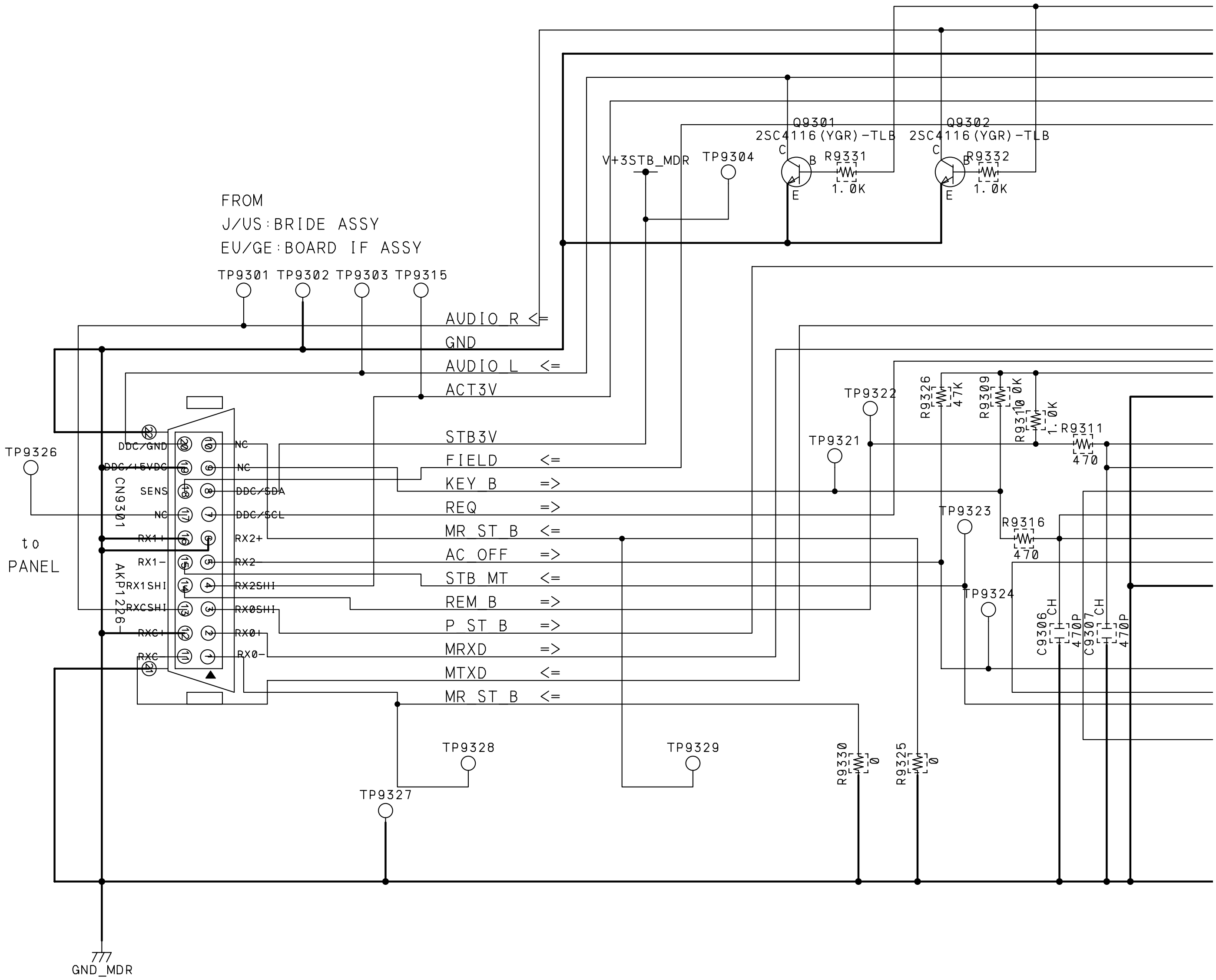
● REG BLOCK 2


UIF_UCOM[1:72]
V+12V
TP8503
V+3COM
TP8502
TP8501
STB
37
EU_STB_SW
DTA124EUA-TLB
ST
Q8503
V+3V_DD
V+3V_DD
3.3V
C8541
10/16
DCH1165-T
YB
0.01
C8542
R8506
150
1/2W
ACN1188-T
TP8506
C8559
CEHAZL471M16
470/16
C8560
YB
0.01
U8502
AXY1090-
VIN
3.3V
GND
ON/OFF
1.5V
1.8V
R8522
R8511
R8510
GND
GND_D
PSW1
V+36V
R8512
0
TP8508
PSW1_0
V+1_8_DD
V+1_8_DD
for EU DTV
C8550
C8551
R8560
R8561
R8562
R8563
TP8509
GND
STB
TP8576
D8517
1SS355-TRB
V+30_EU
for EU DTV
R8574
5.6K
Q8518
2SC2412K(QRS)-TLB
C8558
0.01
D8518
UDZS30(B)-TRB
C8557
0.01
D8519
1SS355-TRB
V+1V_DD
V+1V_DD
1.5V
C8539
C8540
R8530
R8535
R8534
R8533
for Main uCOM
V+3STB
V+3COM
TP8543
IC8509
BD6522F-TBB
VDD
OUT
SSCTL
DISC
CTRL
R8547
0
UIF_UCOM[1:72]
47 ACTIVE
C8536
47/16
ACH1371-TRB
105
H: V+3COM On
L: V+3COM Off
Basic STB
R8501
EUAS
0
R8502
EUB
0
Basic Only
(Basic : PDP-R05FE)
EU ONLY for PC CARD
Basic STB
L PC CARD MODULE
TP8579
TP8578
TP8580
CN8502
KM200NA6
V+3_CARD
1 3.3V
2 3.3V
3 GND
4 GND
V+5_CARD
5 5V
6 GND
EUAS
F8513
CCG1162-T
EUAS
V+3V_DD
V+5V_A
F8514
CCG1162-T
EUAS
GND
for PC CARD
B12B-PH-K-S
A 12/12
CN7451
CN for MAIN BOARD
TP8546
TP8547
GND_D
V+3V_DD
V+3V_DD
GND_D
V+1V_DD
V+1V_DD
GND_D
V+6V
GND
V+12V_16V
GND
V+3V_UCOM
GND
V+3V_STB
GND
KM200NA15
CN8651
V+3V_DD
V+1V_DD
V+6V
V+12V
V+3COM
V+3STB
GND_D
C8545
105
CEHAZL471M16
470/16
GND

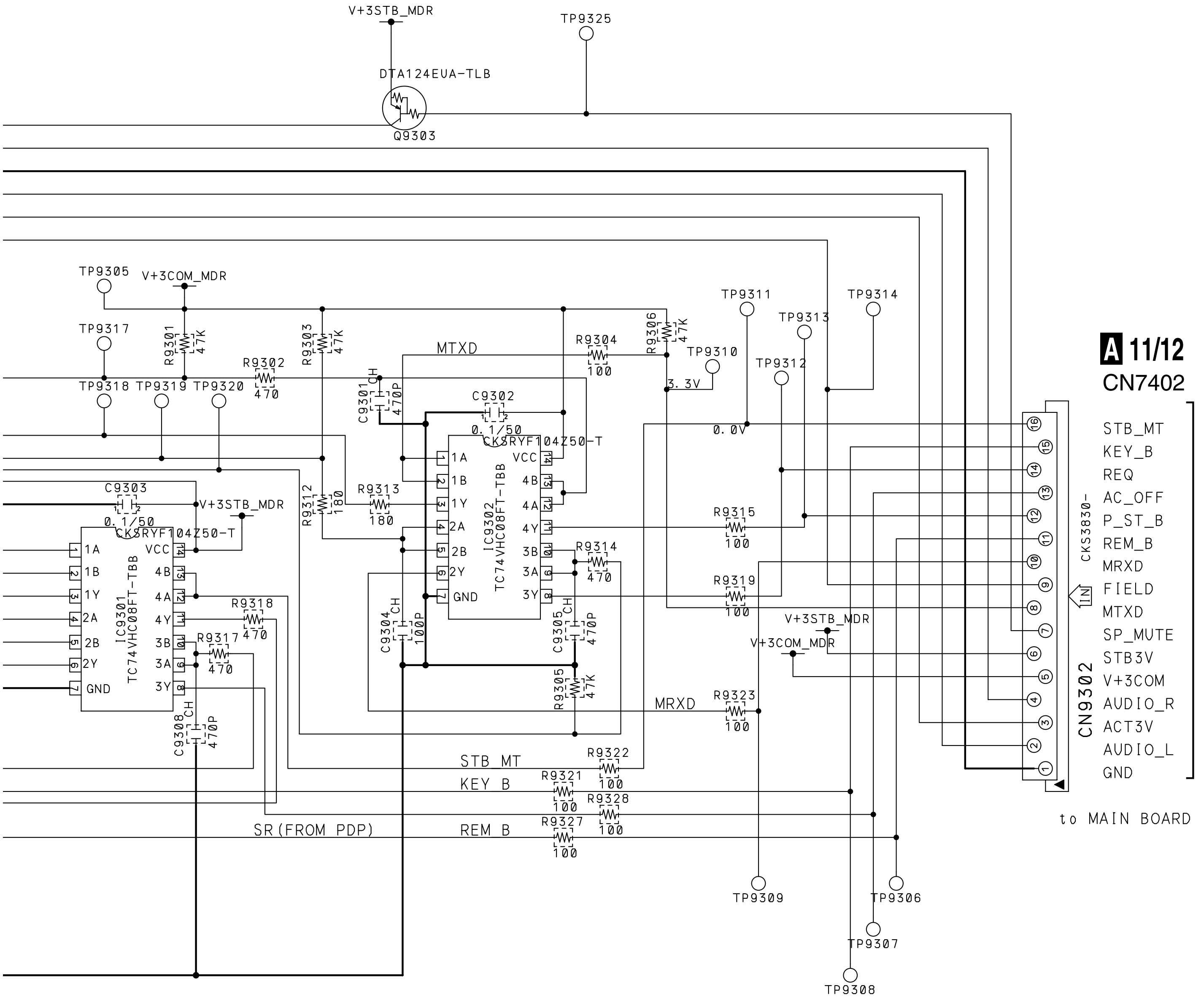
With the ⚠ mark, be sure to use parts of identical designation.

3.24 MDR ASSY

E MDR ASSY (AWZ6948)



Q9301
2SC4116(YGR)-TLB
Q9302
2SC4116(YGR)-TLB
C
B
E
R9331
1.0K
R9332
1.0K
V+3STB_MDR
TP9304
FROM
J/US:BRIDE ASSY
EU/GE:BOARD IF ASSY
TP9301
TP9302
TP9303
TP9315
AUDIO R <=
GND
AUDIO L <=
ACT3V
STB3V
FIELD <=
KEY B =>
REQ =>
MR ST B <=
AC OFF =>
STB MT <=
REM B =>
P ST B =>
MRXD =>
MTXD <=
MR ST B <=
TP9326
to
PANEL
CN9301
AKP1226-
DDC/GND
DDC/+5VDC
SENS
NC
RX1+
RX1-
RX1SHI
RXCSHI
RXC+
RXC
NC
NC
DDC/SDA
DDC/SCL
RX2+
RX2
RX2SHI
RX0SHI
RX0+
RX0-
TP9322
TP9321
R9326
47K
R9309
10.0K
R9310
1.0K
R9311
470
TP9323
R9316
470
TP9324
C9306
CH
470P
C9307
CH
470P
TP9328
TP9329
TP9327
R9330
0
R9325
0
GND_MDR

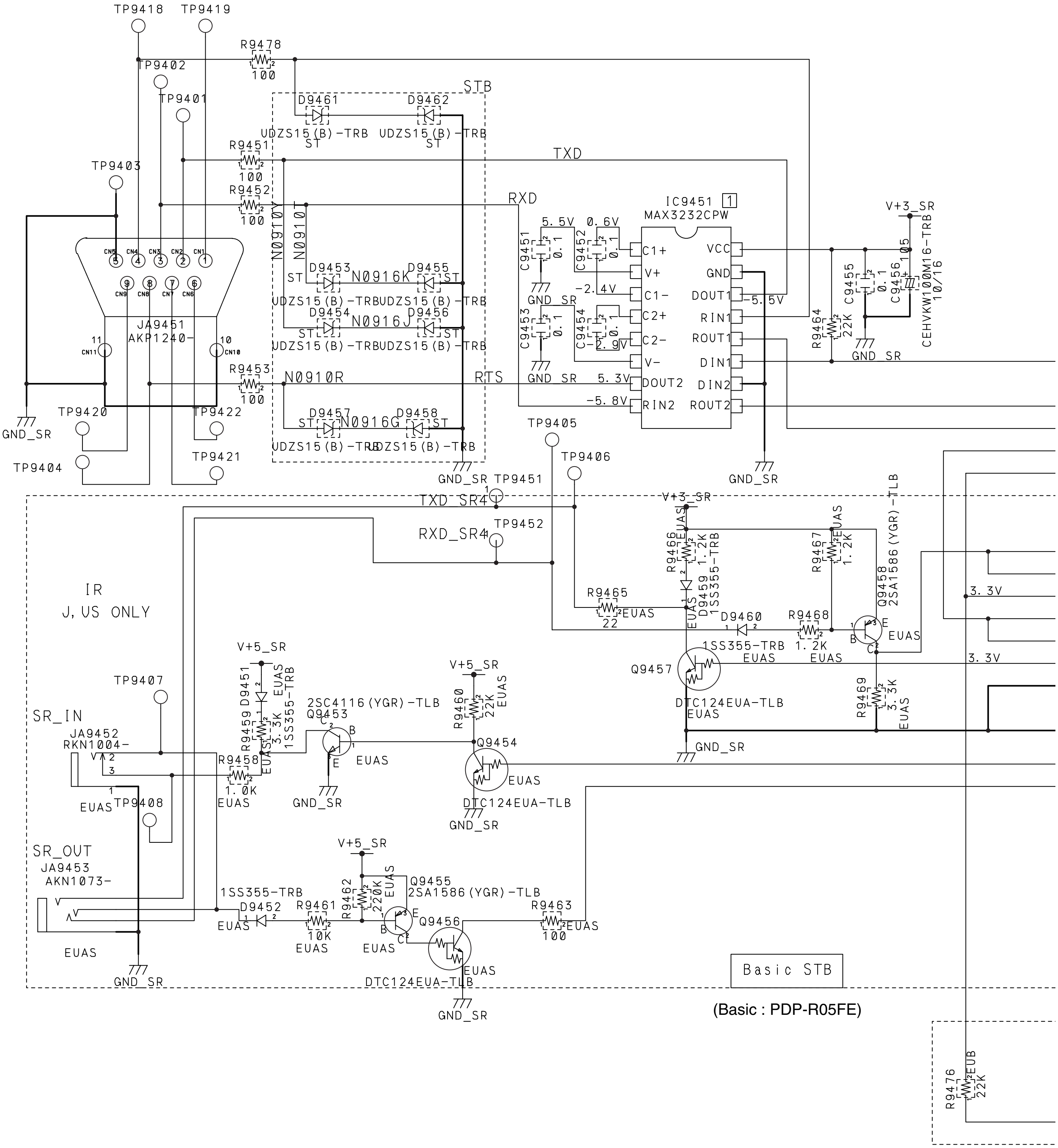

V+3STB_MDR
TP9325
DTA124EUA-TLB
Q9303
TP9305
V+3COM_MDR
TP9317
R9301 47K
R9303 47K
R9302 470
TP9318
TP9319
TP9320
MTXD
C9301 CH 470P
C9302 0.1/50 CKSRYF104Z50-T
R9304 100
R9306 47K
TP9311
TP9313
TP9314
TP9310
TP9312
3.3V
0.0V
IC9302 TC74VHC08FT-TBB
1A 1B 1Y 2A 2B 2Y GND
VCC 4B 4A 4Y 3B 3A 3Y
R9313 180
R9312 180
C9303 0.1/50 CKSRYF104Z50-T
V+3STB_MDR
IC9301 TC74VHC08FT-TBB
R9318 470
R9317 470
C9308 CH 470P
C9304 CH 100P
C9305 CH 470P
R9305 47K
R9314 470
R9315 100
R9319 100
R9323 100
MRXD
V+3STB_MDR
V+3COM_MDR
STB_MT
KEY_B
SR(FROM PDP)
REM_B
R9322 100
R9321 100
R9328 100
R9327 100
TP9309
TP9306
TP9307
TP9308
A 11/12
CN7402
CN9302
CKS3830-
IN
STB_MT
KEY_B
REQ
AC_OFF
P_ST_B
REM_B
MRXD
FIELD
MTXD
SP_MUTE
STB3V
V+3COM
AUDIO_R
ACT3V
AUDIO_L
GND
to MAIN BOARD

ITEM	USED	VACANT
R	9301-9332	9320
C	9301-9308	
Q	9301-9303	
D		
IC	9301, 9302	
CN	9301, 9302, 9341	
S	9341	

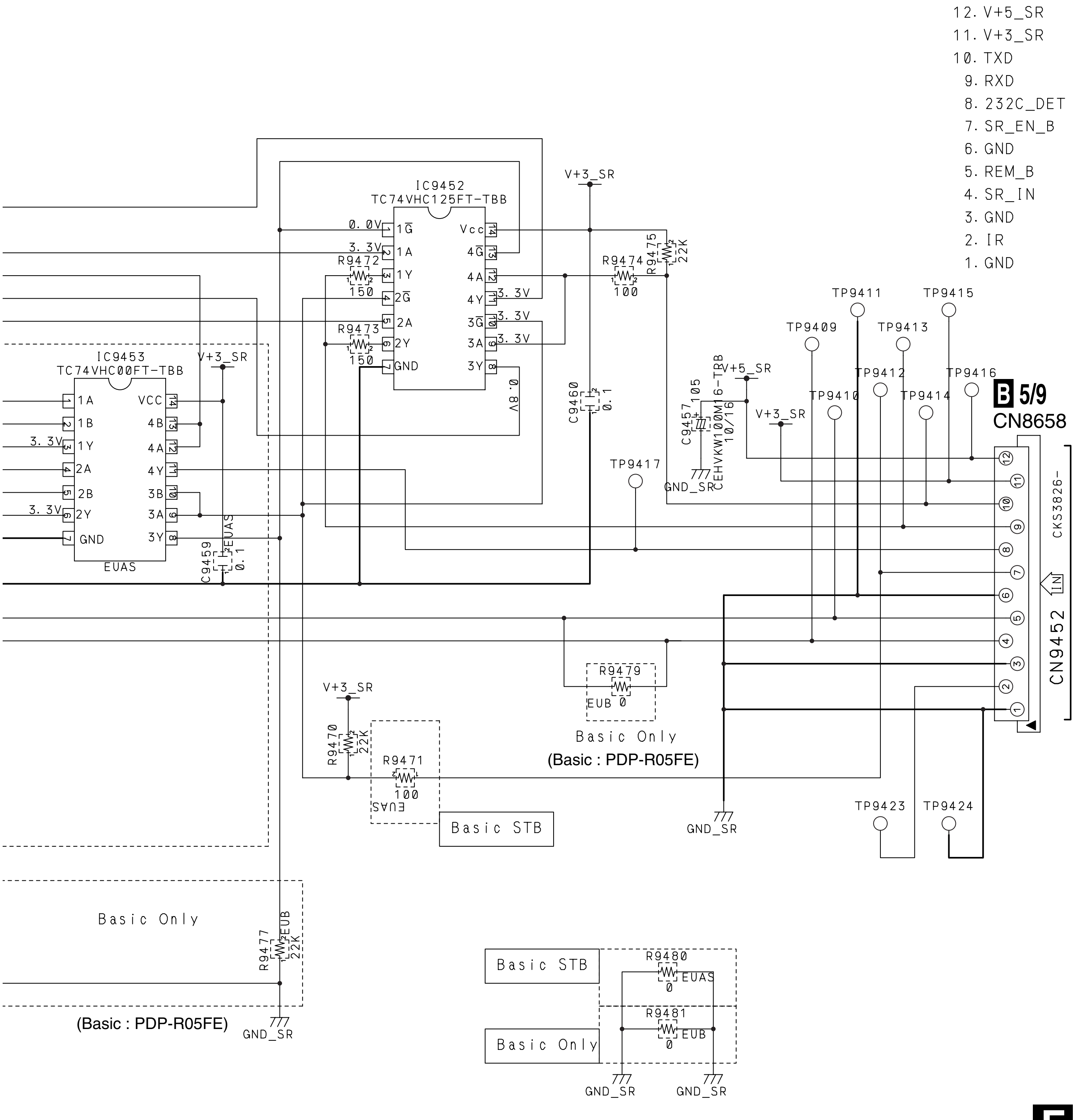
E

3.25 SR ASSY

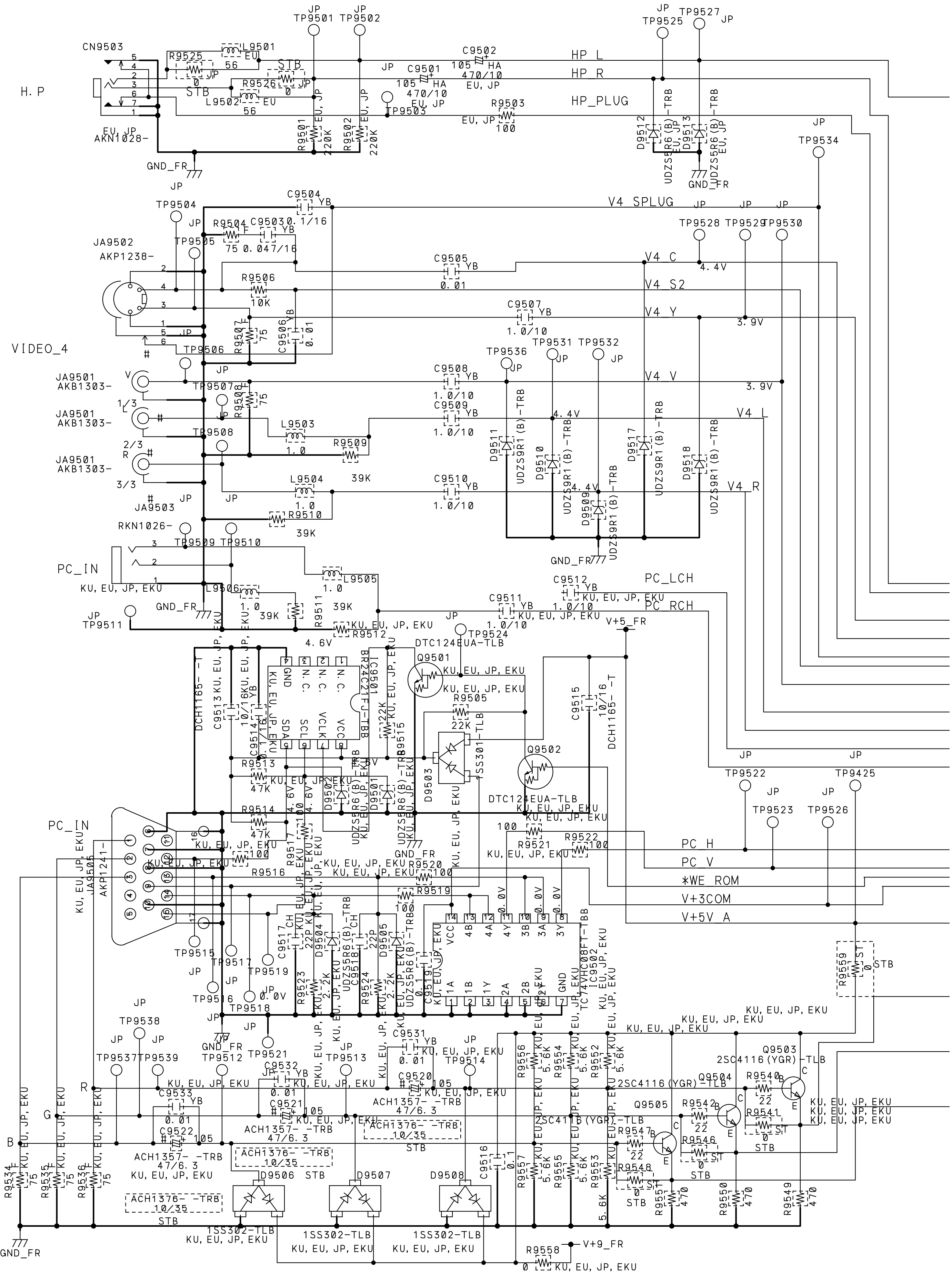
F SR ASSY
(PDP-R05E, PDP-R05XE : AWZ6949)(PDP-R05FE : AWZ6950)


TP9418
TP9419
R9478
100
TP9402
TP9401
STB
D9461
D9462
UDZS15(B)-TRB
ST
R9451
100
TXD
TP9403
R9452
100
RXD
IC9451 1
MAX3232CPW
V+3_SR
5.5V
0.6V
C9451
0.1
C9452
0.1
C1+
V+
C1-
C2+
C2-
V-
DOUT2
RIN2
VCC
GND
DOUT1
RIN1
ROUT1
DIN1
DIN2
ROUT2
-2.4V
-2.9V
5.3V
-5.8V
-5.5V
C9453
C9454
C9455
C9456
CEHVKW100M16-TRB
10/16
R9464
22K
GND_SR
N0910Y
N0910T
N0916K
N0916J
N0910R
N0916G
D9453
D9455
D9454
D9456
D9457
D9458
RTS
JA9451
AKP1240-
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
R9453
100
TP9420
TP9422
TP9421
TP9404
TP9405
TP9406
TP9451
TP9452
TXD_SR4
RXD_SR4
IR
J, US ONLY
R9466
1.2K
EUAS
R9467
1.2K
D9459
1SS355-TRB
Q9458
2SA1586(YGR)-TLB
R9465
22
D9460
R9468
1.2K
3.3V
Q9457
DTC124EUA-TLB
R9469
3.3K
V+5_SR
TP9407
SR_IN
JA9452
RKN1004-
D9451
R9459
3.3K
R9458
1.0K
2SC4116(YGR)-TLB
Q9453
R9460
22K
Q9454
DTC124EUA-TLB
TP9408
SR_OUT
JA9453
AKN1073-
1SS355-TRB
D9452
R9461
10K
R9462
220K
Q9455
2SA1586(YGR)-TLB
Q9456
DTC124EUA-TLB
R9463
100
Basic STB
R9476
EUB
22K

(Basic : PDP-R05FE)

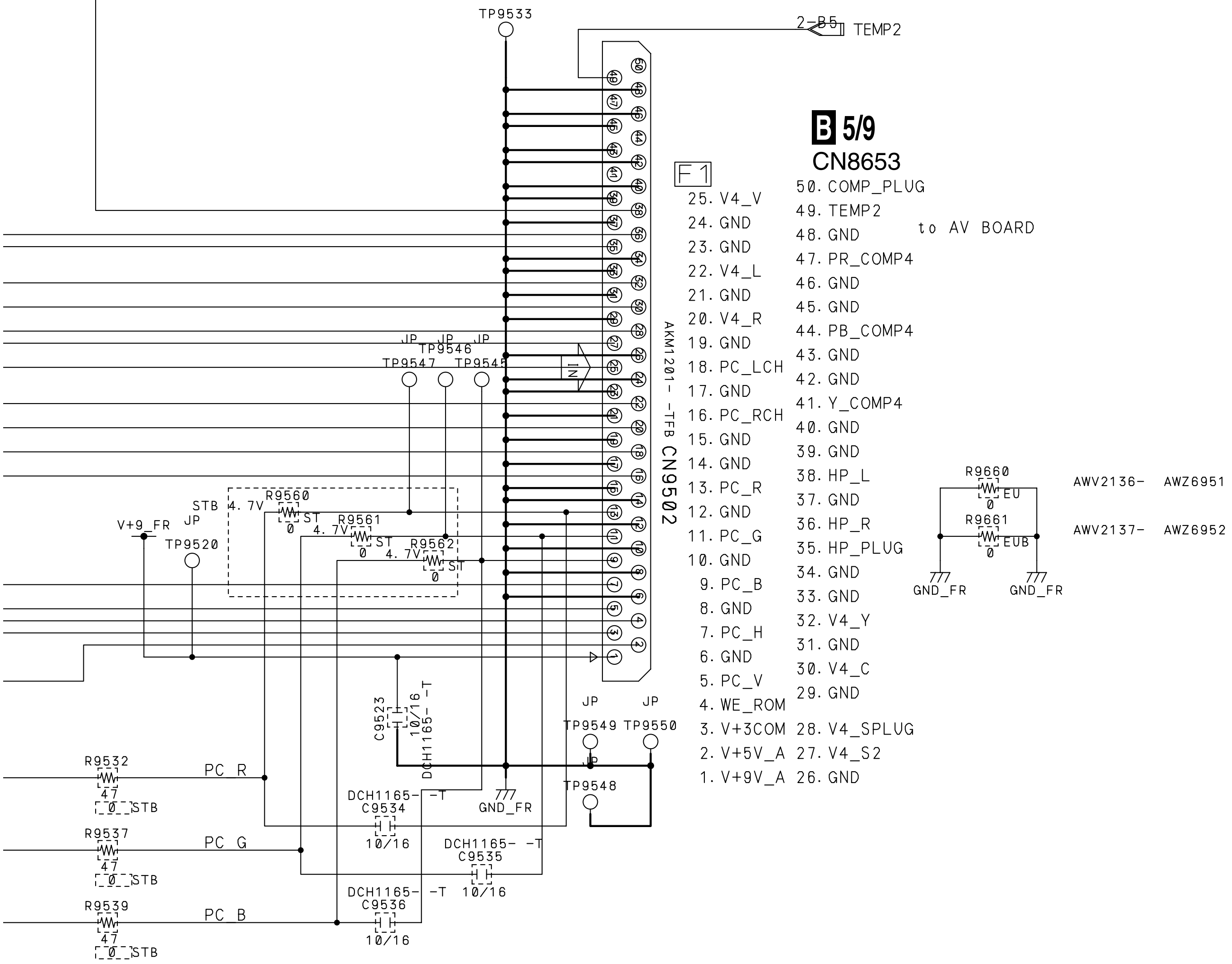

12. V+5_SR
11. V+3_SR
10. TXD
9. RXD
8. 232C_DET
7. SR_EN_B
6. GND
5. REM_B
4. SR_IN
3. GND
2. IR
1. GND
IC9452
TC74VHC125FT-TBB
0.0V
3.3V
1G
1A
1Y
2G
2A
2Y
GND
Vcc
4G
4A
4Y
3G
3A
3Y
0.8V
R9472
150
R9473
150
R9474
100
R9475
22K
V+3_SR
C9460
0.1
IC9453
TC74VHC00FT-TBB
1A
1B
1Y
2A
2B
2Y
GND
VCC
4B
4A
4Y
3B
3A
3Y
EUAS
C9459
0.1
TP9417
C9457
105
CEHVKW100M16-TBB
10/16
V+5_SR
GND_SR
TP9409
TP9410
TP9411
TP9412
TP9413
TP9414
TP9415
TP9416
B 5/9
CN8658
CKS3826-
IN
CN9452
R9479
EUB 0
Basic Only
(Basic : PDP-R05FE)
R9470
22K
R9471
100
EUAS
Basic STB
TP9423
TP9424
Basic Only
R9477
EUB
22K
(Basic : PDP-R05FE)
GND_SR
Basic STB
Basic Only
R9480
EUAS
0
R9481
EUB
0
GND_SR
GND_SR
F

3.26 FRONT ASSY


A
B
C
D
E
F
CN9503
H.P
EU, JP
AKN1028-
R9525
0
STB
L9501
EU
56
R9526
0
JP
L9502
EU
56
TP9501
TP9502
TP9503
R9501
220K
R9502
220K
C9501
105
HA
470/10
EU, JP
C9502
105
HA
470/10
EU, JP
R9503
100
HP_L
HP_R
HP_PLUG
TP9525
TP9527
D9512
D9513
UDZS5R6(B)-TRB
GND_FR
TP9534
JP
JA9502
AKP1238-
TP9504
TP9505
R9504
75
C9503
0.047/16
C9504
0.1/16
YB
V4 SPLUG
TP9528
TP9529
TP9530
C9505
0.01
V4 C
4.4V
R9506
10K
V4 S2
R9507
75
C9506
0.01
C9507
1.0/10
V4 Y
3.9V
VIDEO_4
TP9506
JA9501
AKB1303-
V
L/3
2/3
R
3/3
JA9503
RKN1026-
TP9507
R9508
75
TP9508
C9508
1.0/10
V4 V
TP9536
TP9531
TP9532
C9509
1.0/10
V4 L
L9503
1.0
R9509
39K
L9504
1.0
C9510
1.0/10
V4 R
R9510
39K
D9511
D9510
D9509
D9517
D9518
UDZS9R1(B)-TRB
4.4V
PC_IN
KU, EU, JP, EKU
TP9509
TP9510
TP9511
L9505
1.0
L9506
1.0
R9511
39K
C9511
1.0/10
C9512
1.0/10
PC_LCH
PC_RCH
V+5_FR
R9512
TP9524
DTC124EUA-TLB
Q9501
IC9501
BR24C21FJ-TBB
GND
N.C.
VCC
VCLK
SCL
SDA
4.6V
C9513
C9514
10/16
DCH1165-T
R9505
22K
R9515
22K
D9503
1SS301-TLB
Q9502
C9515
10/16
DCH1165-T
R9513
47K
R9514
47K
D9501
D9502
UDZS5R6(B)-TRB
R9517
100
R9521
100
R9522
100
R9516
100
R9520
100
R9519
100
JA9505
AKP1241-
TP9522
TP9425
TP9523
TP9526
PC_H
PC_V
*WE_ROM
V+3COM
V+5V_A
R9559
0
STB
IC9502
TC74VHC08FT-TBB
0.0V
TP9515
TP9516
TP9517
TP9518
TP9519
C9517
22P
CH
D9504
D9505
UDZS5R6(B)-TRB
C9518
22P
R9523
2.2K
R9524
2.2K
C9519
0.1
TP9538
TP9537
TP9539
TP9512
TP9521
TP9513
TP9514
C9531
0.01
C9532
0.01
C9533
0.01
C9520
105
C9521
105
C9522
105
ACH1357- -TRB
47/6.3
ACH1376- -TRB
10/35
R
G
B
R9534
R9535
R9536
75
D9506
D9507
D9508
1SS302-TLB
C9516
0.1
R9556
R9554
R9552
R9557
R9555
R9553
5.6K
Q9503
Q9504
Q9505
2SC4116(YGR)-TLB
R9540
R9541
R9542
R9546
R9547
R9548
22
0
ST
R9549
R9550
R9551
470
R9558
0
V+9_FR

G FRONT ASSY

(PDP-R05E, PDP-R05XE : AWZ6951)
(PDP-R05FE : AWZ6952)

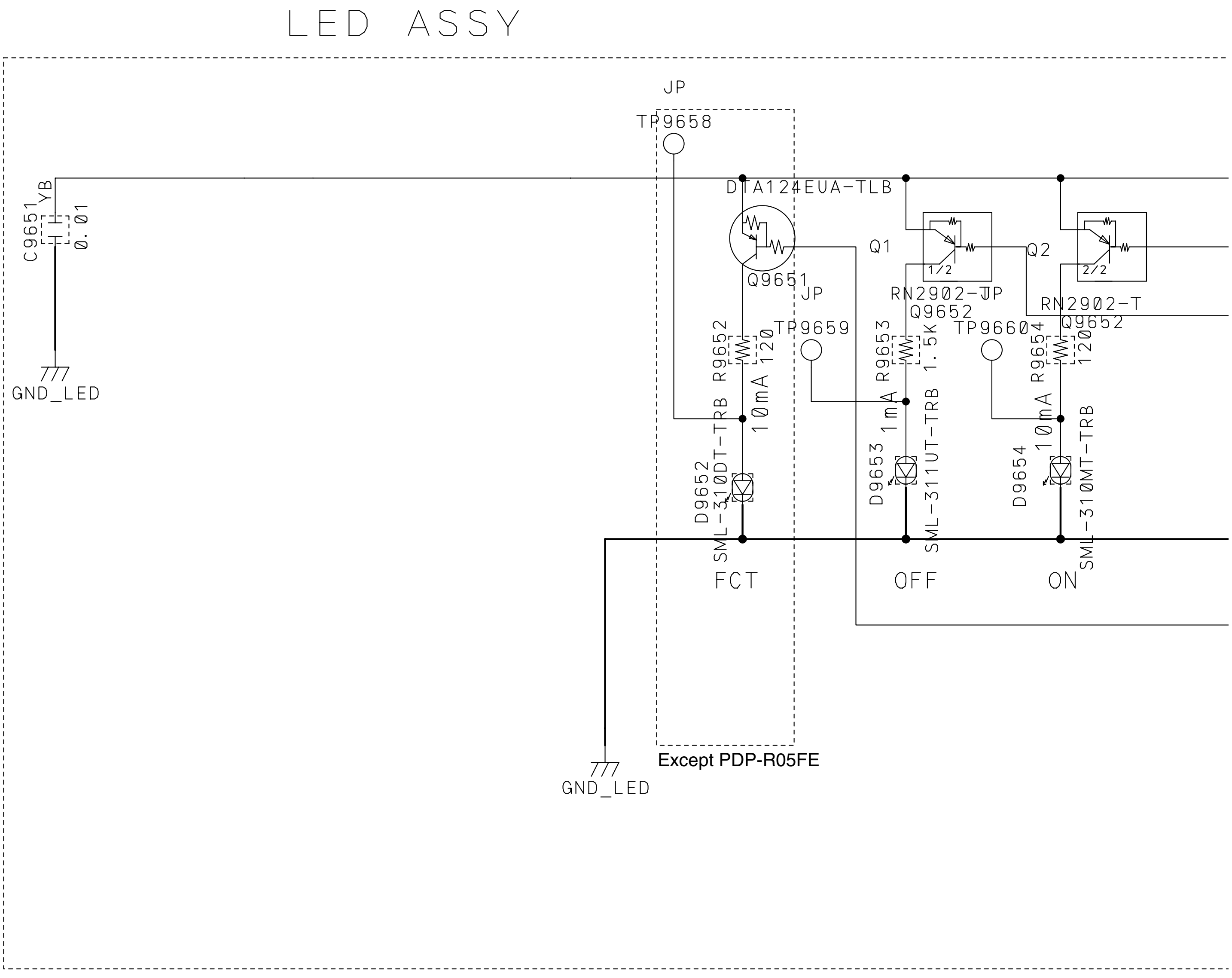

TP9533
2-B5
TEMP2
B 5/9
CN8653
F1
25. V4_V
24. GND
23. GND
22. V4_L
21. GND
20. V4_R
19. GND
18. PC_LCH
17. GND
16. PC_RCH
15. GND
14. GND
13. PC_R
12. GND
11. PC_G
10. GND
9. PC_B
8. GND
7. PC_H
6. GND
5. PC_V
4. WE_ROM
3. V+3COM
2. V+5V_A
1. V+9V_A
50. COMP_PLUG
49. TEMP2
48. GND
47. PR_COMP4
46. GND
45. GND
44. PB_COMP4
43. GND
42. GND
41. Y_COMP4
40. GND
39. GND
38. HP_L
37. GND
36. HP_R
35. HP_PLUG
34. GND
33. GND
32. V4_Y
31. GND
30. V4_C
29. GND
28. V4_SPLUG
27. V4_S2
26. GND
to AV BOARD
AKM1201- -TFB CN9502
IN
JP JP JP
TP9546
TP9547 TP9545
STB 4.7V R9560 0 ST
R9561 4.7V 0 ST
R9562 4.7V 0 ST
V+9_FR JP
TP9520
C9523 10/16 DCH1165- -T
JP JP
TP9549 TP9550
JP
TP9548
GND_FR
R9532 47 0 STB
PC R
DCH1165- -T C9534 10/16
R9537 47 0 STB
PC G
DCH1165- -T C9535 10/16
R9539 47 0 STB
PC B
DCH1165- -T C9536 10/16
R9660 0 EU
R9661 0 EUB
GND_FR GND_FR
AWV2136- AWZ6951
AWV2137- AWZ6952

ITEM	USED	VACANT
R	9501-9583 9651, 9658-9661	9531, 9541, 9548, 9559-9567, 9538
C	9501-9540	
Q	9501-9508	
D	9501-9518	
IC	9501-9502	
CN	9502-9503	
JA	9501-9505	

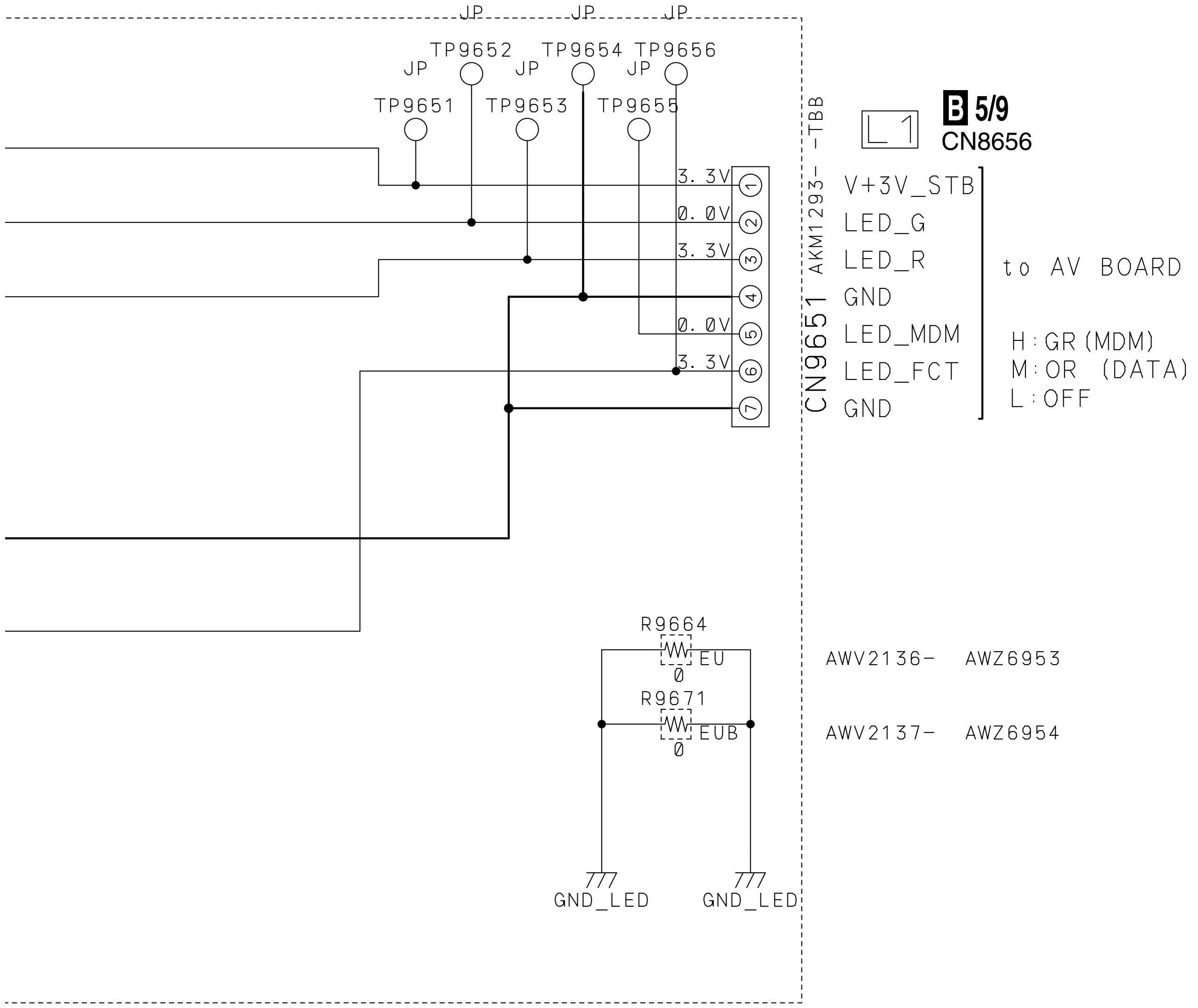
G

3.27 LED ASSY

H LED ASSY
(PDP-R05E, PDP-R05XE : AWZ6953)(PDP-R05FE : AWZ6954)

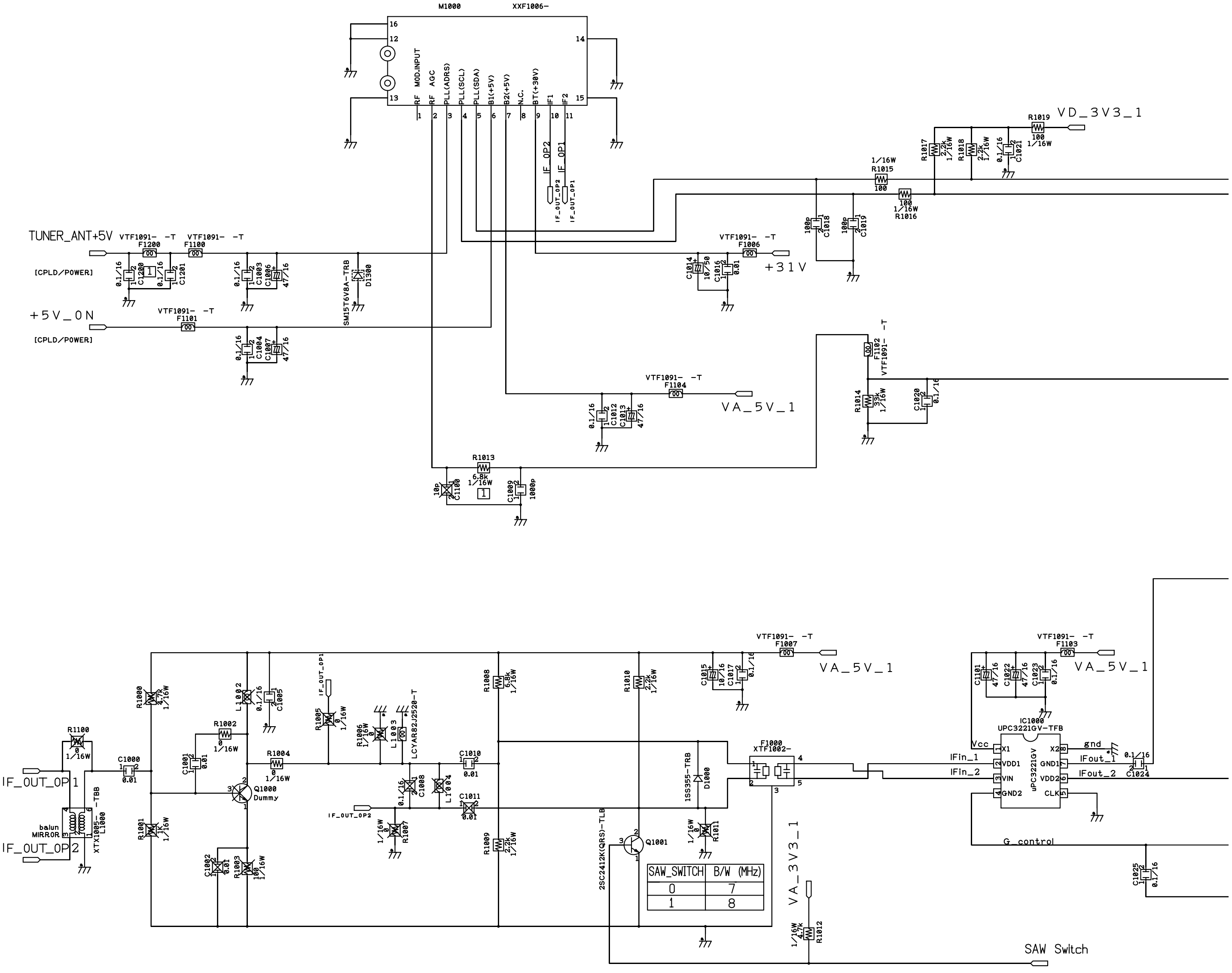

LED ASSY
JP
TP9658
C9651
YB
0.01
GND_LED
DTA124EUA-TLB
Q9651
Q1
1/2
Q2
2/2
RN2902-JP
Q9652
RN2902-T
Q9652
JP
TP9659
TP9660
R9652
120
10mA
R9653
1.5K
1mA
R9654
120
10mA
D9652
SML-310DT-TRB
D9653
SML-311UT-TRB
D9654
SML-310MT-TRB
FCT
OFF
ON
GND_LED
Except PDP-R05FE

ITEM	USED	VACANT
R	9652-9671	9658-9661
C	9651, 9652	
Q	9651-9654	
D	9652-9655	
IC		
CN	9651	


JP
JP
JP
TP9652
TP9654
TP9656
JP
JP
JP
TP9651
TP9653
TP9655
3.3V
0.0V
3.3V
0.0V
3.3V
①
②
③
④
⑤
⑥
⑦
CN9651 AKM1293- -TBB
L1
B 5/9
CN8656
V+3V_STB
LED_G
LED_R
GND
LED_MDM
LED_FCT
GND
to AV BOARD
H:GR(MDM)
M:OR (DATA)
L:OFF
R9664
EU
0
R9671
EUB
0
AWV2136- AWZ6953
AWV2137- AWZ6954
GND_LED
GND_LED

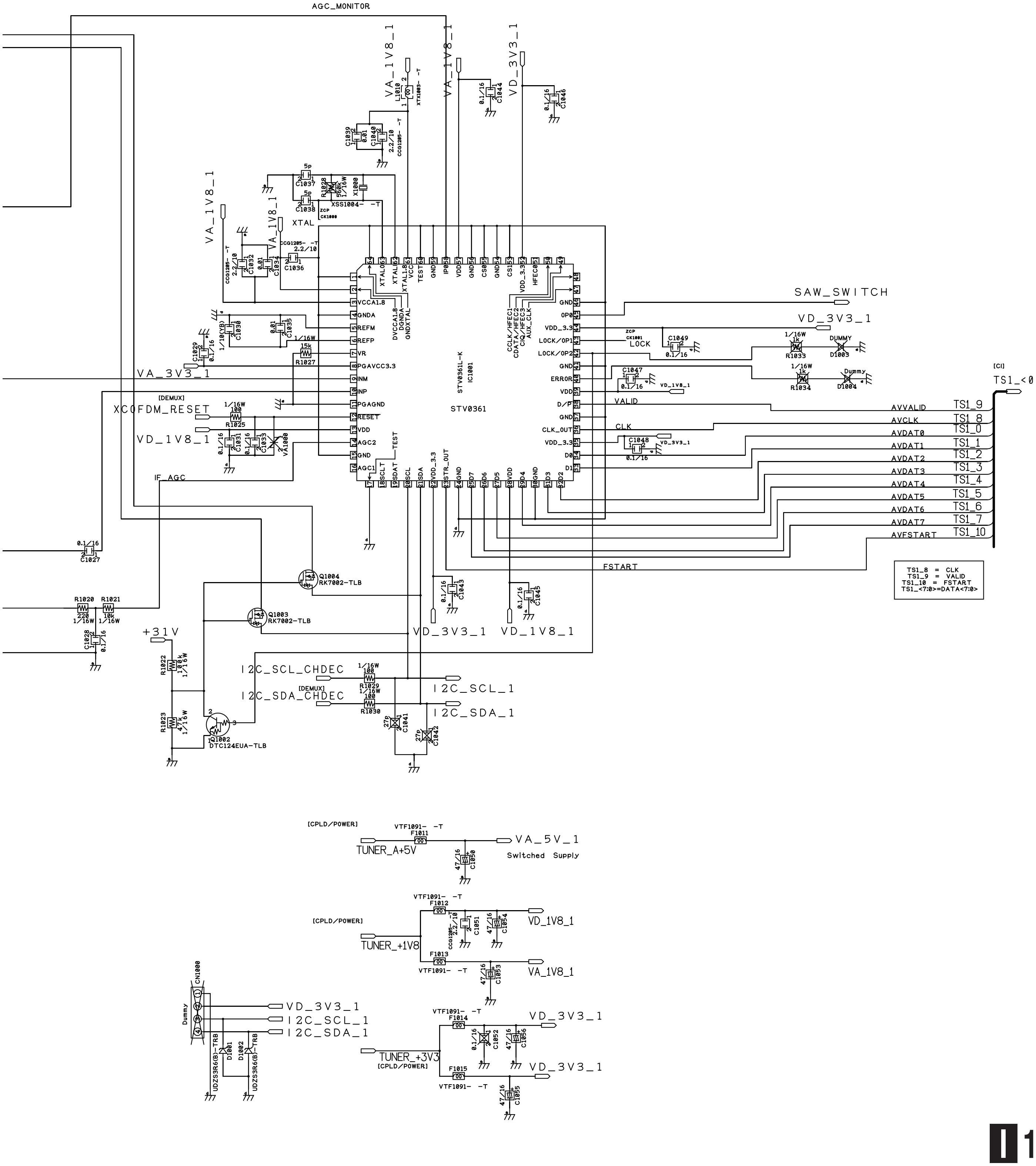
3.28 TUNER BOARD ASSY (1/6)

1/6 TUNER BOARD ASSY (AWE1301)



M1000
XXF1006-
16
12
13
14
15
RF MOD.INPUT
RF AGC
PLL(ADRS)
PLL(SCL)
PLL(SDA)
B1(+5V)
B2(+5V)
N.C.
BT(+30V)
IF1
IF2
IF_OP2
IF_OP1
IF_OUT_OP2
IF_OUT_OP1
VD_3V3_1
R1019
100
1/16W
R1017
2.2k
1/16W
R1018
2.2k
1/16W
C1021
0.1/16
R1015
1/16W
100
R1016
100
1/16W
C1018
100p
C1019
100p
TUNER_ANT+5V
VTF1091- -T
F1200
F1100
[CPLD/POWER]
C1200
0.1/16
C1201
0.1/16
C1003
0.1/16
C1006
47/16
D1300
SM15T6V8A-TRB
+5V_ON
F1101
C1004
0.1/16
C1007
47/16
F1006
+31V
C1014
10/50
C1016
0.01
F1102
R1014
33k
1/16W
C1020
0.1/16
F1104
VA_5V_1
C1012
0.1/16
C1013
47/16
R1013
6.8k
1/16W
C1100
10p
C1009
1000p
F1007
VA_5V_1
F1103
C1015
10/16
C1017
0.1/16
C1101
47/16
C1022
47/16
C1023
0.1/16
IF_OUT_OP1
IF_OUT_OP2
R1100
0
1/16W
balun
MIRROR
L1000
XTX1005- -TBB
R1000
4.7k
1/16W
R1001
4.7k
1/16W
C1000
0.01
C1001
0.01
R1002
0
1/16W
Q1000
Dummy
L1002
C1005
0.1/16
C1002
0.01
R1003
10
1/16W
R1004
0
1/16W
R1005
1/16W
R1006
1/16W
R1007
1/16W
L1003
LCYAR82J2520-T
C1008
0.1/16
L1004
C1010
0.01
C1011
0.01
R1008
6.8k
1/16W
R1009
2.2k
1/16W
R1010
2.2k
1/16W
Q1001
2SC2412K(QRS)-TLB
D1000
1SS355-TRB
R1011
1/16W
F1000
XTF1002-
VA_3V3_1
R1012
4.7k
1/16W
IC1000
UPC3221GV-TFB
uPC3221GV
Vcc
X1
VDD1
VIN
GND2
X2
GND1
VDD2
CLK
IFin_1
IFin_2
gnd
IFout_1
IFout_2
C1024
0.1/16
G_control
C1025
0.1/16
SAW Switch

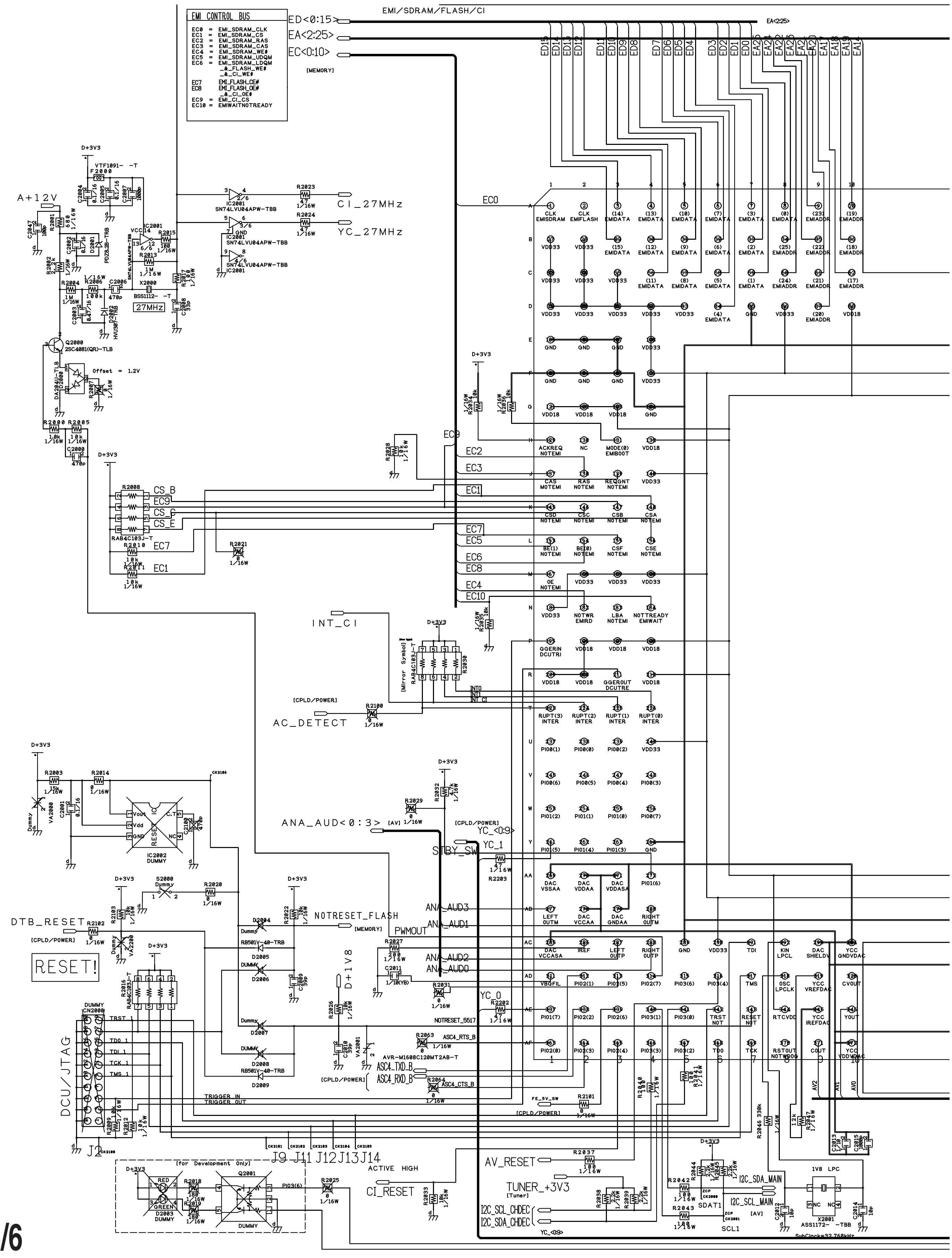
SAW_SWITCH	B/W (MHz)
0	7
1	8


AGC_MONITOR
VA_1V8_1
VA_1V8_1
VD_3V3_1
L1010
XTX1005- -T
C1044
0.1/16
C1046
0.1/16
C1039
0.01
C1040
2.2/10
CCG1205- -T
C1037
5p
C1038
5p
R1028
1/16W
X1000
XSS1004- -T
ZCP
CK1000
XTAL
VA_1V8_1
VA_1V8_1
C1032
2.2/10
CCG1205- -T
C1034
0.01
C1036
2.2/10
C1030
1/10(YB)
C1035
0.01
C1029
0.1/16
R1027
15k
1/16W
VA_3V3_1
[DEMUX]
XCOFDM_RESET
R1025
100
1/16W
VD_1V8_1
C1031
C1033
VA1000
0.1/16
IF_AGC
VCCA1.8
GNDA
REFM
REFP
VR
PGAVCC3.3
INM
INP
PGAGND
RESET
VDD
AGC2
GND
AGC1
XTAL0
XTAL1
VCC
TEST
GND
IP0
VDD
GND
CS0
GND
CS1
VDD_3.3
HFEC0
DVCCA1.8
DGNDA
GNDXTAL
CCLK/HFEC1
CDATA/HFEC2
CIO/HFEC3
AUX_CLK
GND
OP0
VDD_3.3
LOCK/OP1
LOCK/OP2
GND
ERROR
VDD
D/P
GND
CLK_OUT
VDD_3.3
D0
D1
SCLT
SDAT
SCL
SDA
VDD_3.3
STR_OUT
GND
D7
D6
D5
VDD
D4
D3
D2
TEST
STV0361L-K
IC1001
STV0361
SAW_SWITCH
VD_3V3_1
ZCP
CK1001
LOCK
C1049
0.1/16
R1033
1k
1/16W
DUMMY
D1003
C1047
0.1/16
VD_1V8_1
R1034
1k
1/16W
Dummy
D1004
VALID
CLK
C1048
0.1/16
VD_3V3_1
[CI]
TS1_<0:10>
AVVALID TS1_9
AVCLK TS1_8
AVDAT0 TS1_0
AVDAT1 TS1_1
AVDAT2 TS1_2
AVDAT3 TS1_3
AVDAT4 TS1_4
AVDAT5 TS1_5
AVDAT6 TS1_6
AVDAT7 TS1_7
AVFSTART TS1_10
FSTART
TS1_8 = CLK
TS1_9 = VALID
TS1_10 = FSTART
TS1_<7:0>=DATA<7:0>
C1027
0.1/16
R1020
220
1/16W
R1021
10k
1/16W
C1028
0.1/16
Q1004
RK7002-TLB
Q1003
RK7002-TLB
C1043
0.1/16
C1045
0.1/16
VD_3V3_1
VD_1V8_1
+31V
R1022
10k
1/16W
R1023
47k
1/16W
Q1002
DTC124EUA-TLB
I2C_SCL_CHDEC
[DEMUX]
I2C_SDA_CHDEC
R1029
100
1/16W
R1030
100
1/16W
I2C_SCL_1
I2C_SDA_1
C1041
27p
C1042
27p
[CPLD/POWER]
VTF1091- -T
F1011
TUNER_A+5V
VA_5V_1
Switched Supply
C1050
47/16
VTF1091- -T
F1012
[CPLD/POWER]
TUNER_+1V8
C1051
2.2/10
CCG1205- -T
C1054
47/16
VD_1V8_1
F1013
VTF1091- -T
C1053
47/16
VA_1V8_1
CN1000
Dummy
VD_3V3_1
I2C_SCL_1
I2C_SDA_1
D1001
UDZS3R6(B)-TRB
D1002
UDZS3R6(B)-TRB
VTF1091- -T
F1014
VD_3V3_1
C1052
0.1/16
C1056
47/16
TUNER_+3V3
[CPLD/POWER]
F1015
VTF1091- -T
VD_3V3_1
C1055
47/16

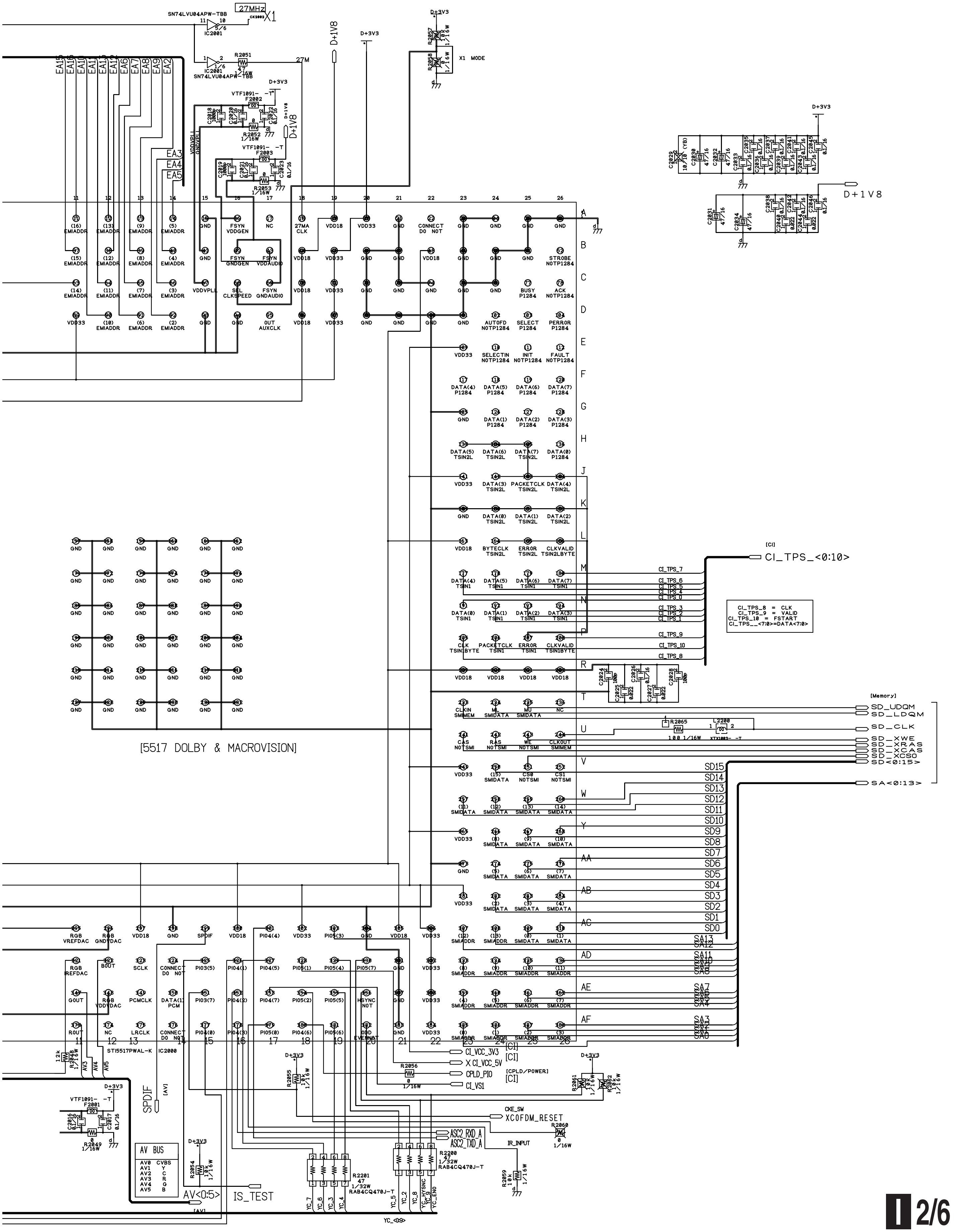
I 1/6

3.29 TUNER BOARD ASSY (2/6)

2/6 TUNER BOARD ASSY (AWE1301)

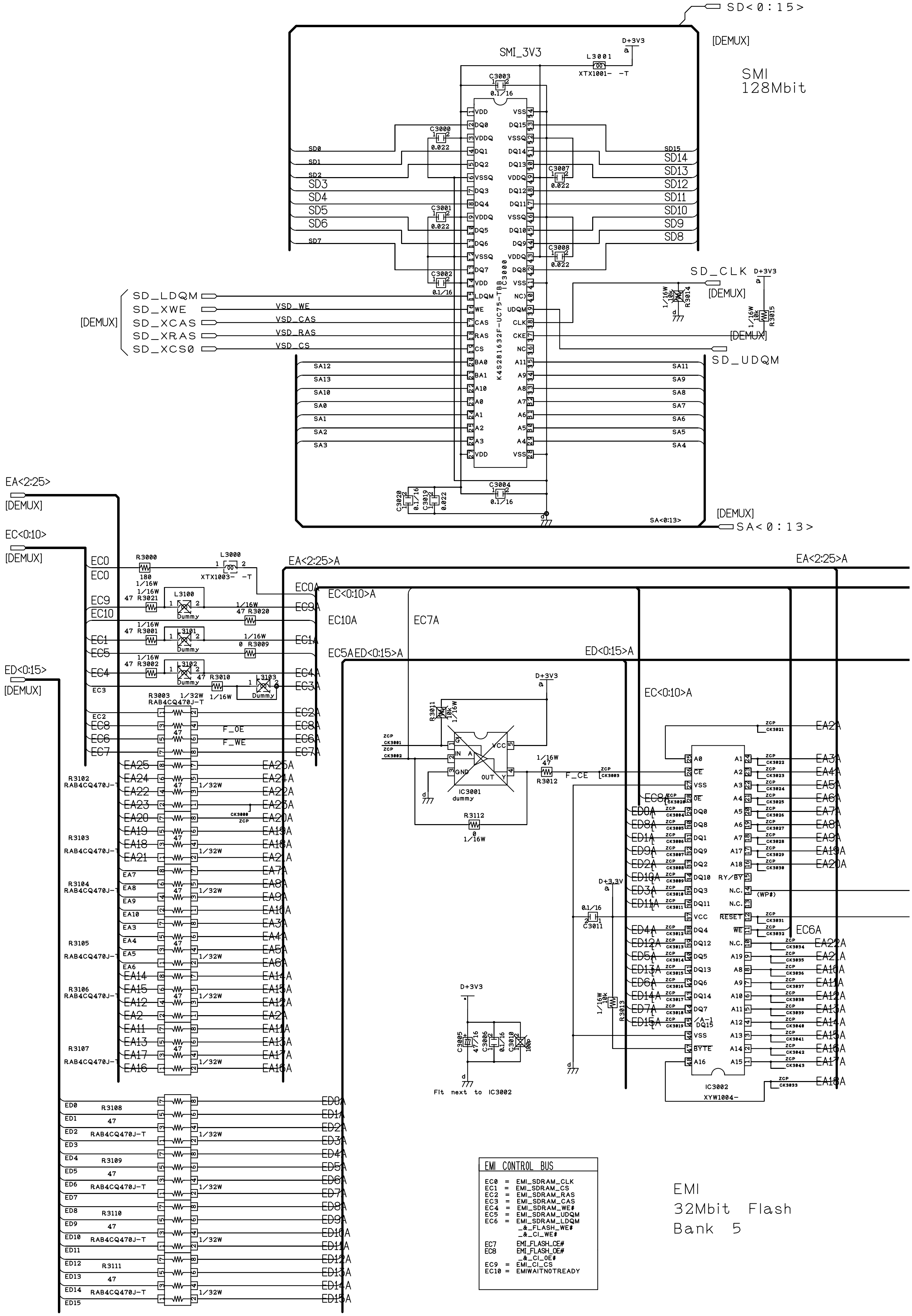

EMI CONTROL BUS
EC0 = EMI_SDRAM_CLK
EC1 = EMI_SDRAM_CS
EC2 = EMI_SDRAM_RAS
EC3 = EMI_SDRAM_CAS
EC4 = EMI_SDRAM_WE#
EC5 = EMI_SDRAM_UDQM
EC6 = EMI_SDRAM_LDQM _&_FLASH_WE# _&_CI_WE#
EC7 EMI_FLASH_CE#
EC8 EMI_FLASH_OE# _&_CI_OE#
EC9 = EMI_CI_CS
EC10 = EMIWAITNOTREADY
ED<0:15>
EA<2:25>
EC<0:10>
[MEMORY]
EMI/SDRAM/FLASH/CI
D+3V3
A+12V
VTF1091- -T
F2000
IC2001
SN74LVU04APW-TBB
CI_27MHz
YC_27MHz
X2000
BSS1112- -T
27MHz
Q2000
2SC4081(QR)-TLB
Offset = 1.2V
EC0
CS_B
CS_C
CS_E
RAB4C103J-T
INT_CI
AC_DETECT
[CPLD/POWER]
IC2002
DUMMY
RESET
ANA_AUD<0:3>
[AV]
YC_<0:9>
STBY_SW
YC_1
DTB_RESET
NOTRESET_FLASH
PWMOUT
ANA_AUD3
ANA_AUD1
ANA_AUD2
ANA_AUD0
D+1V8
RESET!
DCU/JTAG
TRST
TDO
TDI
TCK
TMS
TRIGGER_IN
TRIGGER_OUT
RB501V-40-TRB
AVR-M1608C120MT2AB-T
ASC4_RTS_B
ASC4_TXD_B
ASC4_RXD_B
ASC4_CTS_B
YC_0
NOTRESET_5517
FE_5V_SW
J2
J9 J11 J12 J13 J14
[for Development Only]
RED
GREEN
D2003
Q2001
DUMMY
PIO3(6)
ACTIVE HIGH
CI_RESET
AV_RESET
TUNER_+3V3
[Tuner]
I2C_SCL_CHDEC
I2C_SDA_CHDEC
I2C_SDA_MAIN
I2C_SCL_MAIN
SDAT1
SCL1
1V8 LPC
X2001
ASS1172- -TBB
SubClock=32.768kHz

2/6


SN74LVU04APW-TBB
IC2001
27MHz
X1
R2051
27M
D+1V8
D+3V3
R2057
R2058
X1 MODE
VTF1091- -T
F2002
C2018
C2020
C2022
R2052
1/16W
F2003
C2019
C2021
C2023
R2053
EA15
EA14
EA10
EA11
EA13
EA12
EA6
EA7
EA8
EA9
EA2
EA3
EA4
EA5
VDDVPLL
GNDVPLL
C2029
C2030
C2032
C2033
C2035
C2036
C2037
C2039
C2041
C2043
C2045
C2047
C2031
C2034
C2038
C2040
C2042
C2044
C2046
C2048
D+1V8
(16) EMIADDR
(15) EMIADDR
(14) EMIADDR
VDD33
GND
FSYN VDDGEN
FSYN GNDGEN
FSYN VDDAUDIO
SEL CLKSPEED
FSYN GNDAUDIO
NC
27MA CLK
OUT AUXCLK
VDD18
CONNECT DO NOT
STROBE NOTP1284
BUSY P1284
ACK NOTP1284
AUTOFD NOTP1284
SELECT P1284
PERROR P1284
SELECTIN NOTP1284
INIT NOTP1284
FAULT NOTP1284
DATA(4) P1284
DATA(5) P1284
DATA(6) P1284
DATA(7) P1284
DATA(1) P1284
DATA(2) P1284
DATA(3) P1284
DATA(5) TSIN2L
DATA(6) TSIN2L
DATA(7) TSIN2L
DATA(0) P1284
DATA(3) TSIN2L
PACKETCLK TSIN2L
DATA(4) TSIN2L
DATA(0) TSIN2L
DATA(1) TSIN2L
DATA(2) TSIN2L
BYTECLK TSIN2L
ERROR TSIN2L
CLKVALID TSIN2LBYTE
DATA(4) TSIN1
DATA(5) TSIN1
DATA(6) TSIN1
DATA(7) TSIN1
DATA(0) TSIN1
DATA(1) TSIN1
DATA(2) TSIN1
DATA(3) TSIN1
CLK TSIN1BYTE
PACKETCLK TSIN1
ERROR TSIN1
CLKVALID TSIN1BYTE
[CI]
CI_TPS_<0:10>
CI_TPS_8 = CLK
CI_TPS_9 = VALID
CI_TPS_10 = FSTART
CI_TPS_<7:0>=DATA<7:0>
C2024
C2025
C2026
C2027
C2028
CLKIN SMIMEM
SMIDATA
MU SMIDATA
NC
CAS NOTSMI
RAS NOTSMI
WE NOTSMI
CLKOUT SMIMEM
CS0 NOTSMI
CS1 NOTSMI
R2065
100 1/16W
L2200
XTX1003- -T
[Memory]
SD_UDQM
SD_LDQM
SD_CLK
SD_XWE
SD_XRAS
SD_XCAS
SD_XCS0
SD<0:15>
SA<0:13>
SD15
SD14
SD13
SD12
SD11
SD10
SD9
SD8
SD7
SD6
SD5
SD4
SD3
SD2
SD1
SD0
SA13
SA12
SA11
SA10
SA9
SA8
SA7
SA6
SA5
SA4
SA3
SA2
SA1
SA0
SMIADDR
[5517 DOLBY & MACROVISION]
RGB VREFDAC
RGB GNDYDAC
SPDIF
PIO4(4)
PIO5(3)
RGB IREFDAC
BOUT
SCLK
CONNECT DO NOT
PIO3(5)
PIO4(1)
PIO4(5)
PIO5(1)
PIO5(4)
PIO5(7)
GOUT
RGB VDDYDAC
PCMCLK
DATA(1) PCM
PIO3(7)
PIO4(2)
PIO4(7)
PIO5(2)
PIO5(5)
HSYNC NOT
ROUT
NC
LRCLK
PIO4(0)
PIO4(3)
PIO5(0)
PIO4(6)
PIO5(6)
ODD EVENNOT
STi5517PWAL-K IC2000
CI_VCC_3V3
X CI_VCC_5V
CPLD_PIO
CI_VS1
[CI]
[CPLD/POWER]
R2056
R2061
R2062
R2055
CKE_SW
XCOFDM_RESET
ASC2_RXD_A
ASC2_TXD_A
R2060
IR_INPUT
R2059
R2200
RAB4CQ470J-T
R2201
1/32W
YC_7
YC_6
YC_3
YC_4
YC_5
YC_2
YC_8
YC_HYSNC
YC_9
YC_EN0
YC_<09>
SPDIF
[AV]
AV BUS
AV0 CVBS
AV1 Y
AV2 C
AV3 R
AV4 G
AV5 B
AV<0:5>
IS_TEST
R2054
R2048
R2049
F2001
C2016
C2017
AV3
AV4
AV5
12k

I 2/6

3.30 TUNER BOARD ASSY (3/6)

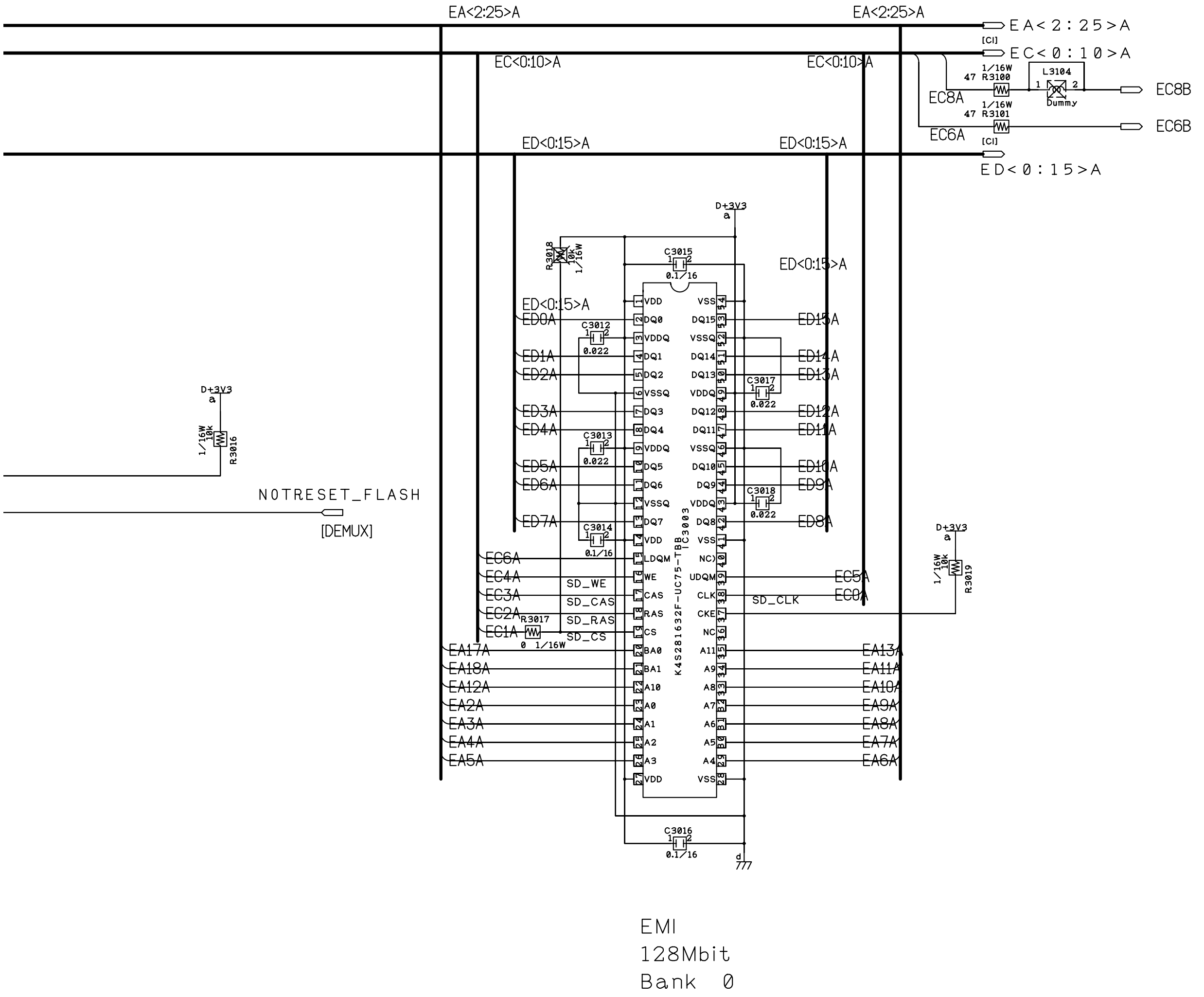


SD<0:15>
[DEMUX]
SMI_3V3
D+3V3
L3001
XTX1001- -T
SMI
128Mbit
C3003
0.1/16
C3000
0.022
C3001
0.022
C3002
0.1/16
C3007
0.022
C3008
0.022
C3004
0.1/16
C3020
0.1/16
C3019
0.022
IC3000
K4S281632F-UC75-TB8
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
SD_LDQM
SD_XWE
SD_XCAS
SD_XRAS
SD_XCS0
VSD_WE
VSD_CAS
VSD_RAS
VSD_CS
SD_CLK
R3014
R3015
1/16W
10k
SD_UDQM
SA12
SA13
SA10
SA0
SA1
SA2
SA3
SA11
SA9
SA8
SA7
SA6
SA5
SA4
SA<0:13>
EA<2:25>
EC<0:10>
ED<0:15>
R3000
180
1/16W
L3000
XTX1003- -T
EA<2:25>A
EC0A
EC<0:10>A
EC10A
EC7A
EC5A
ED<0:15>A
R3021
R3001
R3002
L3100
L3101
L3102
L3103
Dummy
R3020
R3009
R3010
R3003
RAB4CQ470J-T
1/32W
47
F_OE
F_WE
R3102
R3103
R3104
R3105
R3106
R3107
R3108
R3109
R3110
R3111
D+3V3
R3011
10k
IC3001
dummy
R3012
F_CE
R3112
0
1/16W
D+3.3V
C3011
0.1/16
R3013
10k
IC3002
XYW1004-
EC8A
EC6A
(WP#)
RY/BY
RESET
BYTE
C3005
47/16
C3006
0.1/16
C3010
100p
Fit next to IC3002
EMI
32Mbit Flash
Bank 5

EMI CONTROL BUS

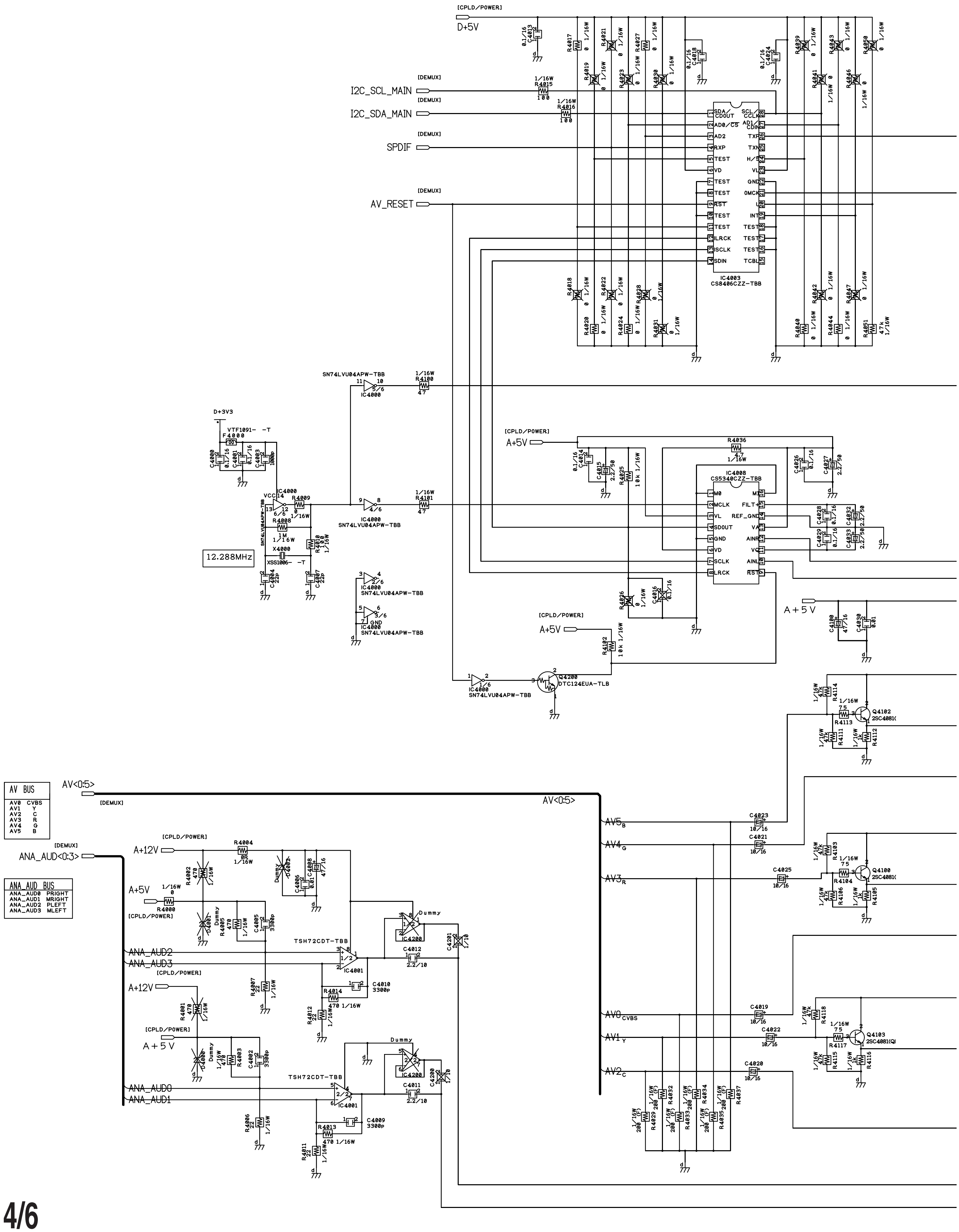
EC0 = EMI_SDRAM_CLK
EC1 = EMI_SDRAM_CS
EC2 = EMI_SDRAM_RAS
EC3 = EMI_SDRAM_CAS
EC4 = EMI_SDRAM_WE#
EC5 = EMI_SDRAM_UDQM
EC6 = EMI_SDRAM_LDQM
_&_FLASH_WE#
_&_CI_WE#
EC7 EMI_FLASH_CE#
EC8 EMI_FLASH_OE#
_&_CI_OE#
EC9 = EMI_CI_CS
EC10 = EMIWAITNOTREADY

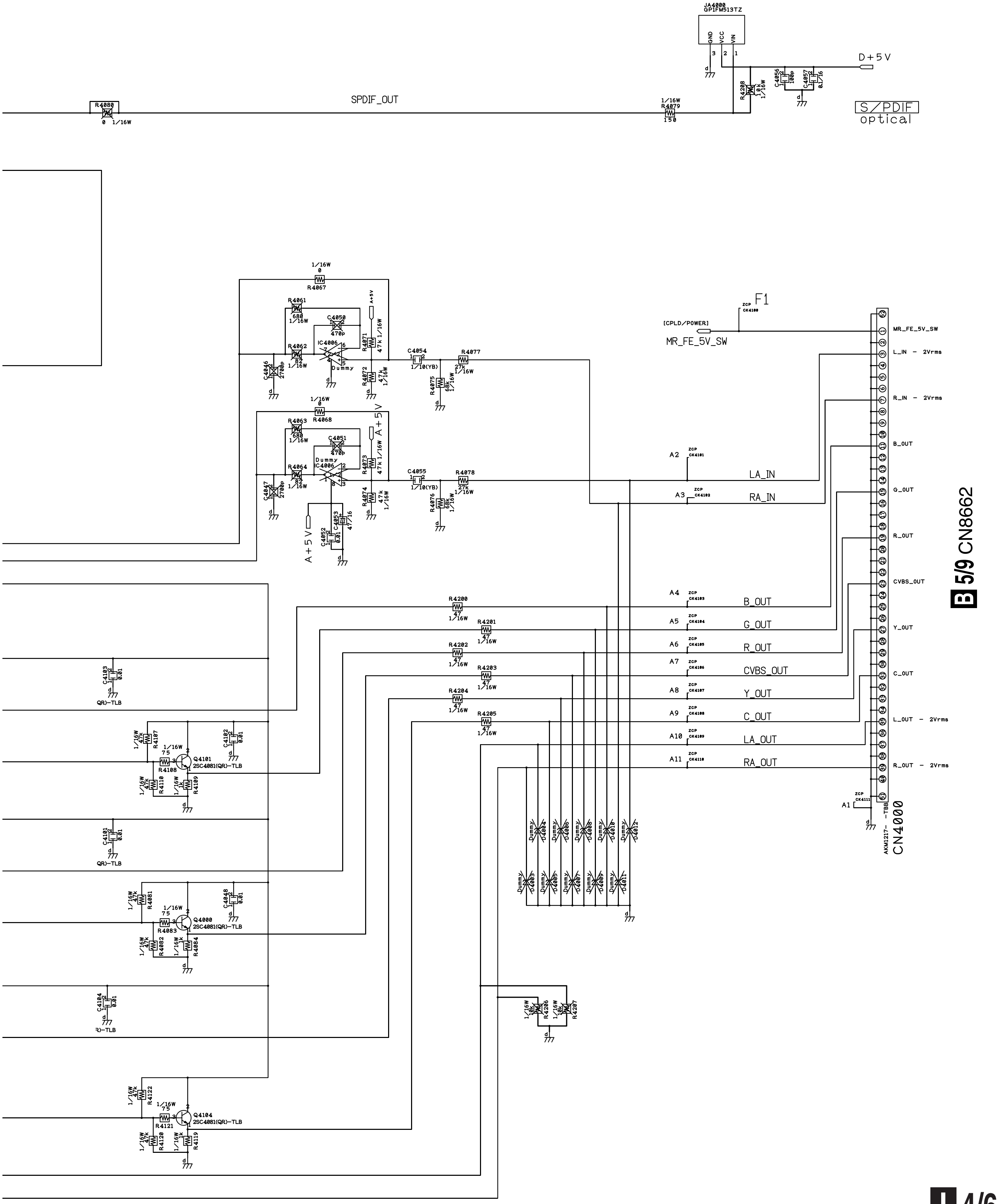
I 3/6 TUNER BOARD ASSY (AWE1301)


EA<2:25>A
EC<0:10>A
ED<0:15>A
EA<2:25>A
EC<0:10>A
ED<0:15>A
[CI]
1/16W
47 R3100
L3104
Dummy
EC8A
EC8B
1/16W
47 R3101
EC6A
EC6B
D+3V3
R3018
10k
1/16W
C3015
0.1/16
ED<0:15>A
ED0A
ED1A
ED2A
ED3A
ED4A
ED5A
ED6A
ED7A
C3012
0.022
C3013
0.022
C3014
0.1/16
C3017
0.022
C3018
0.022
ED15A
ED14A
ED13A
ED12A
ED11A
ED10A
ED9A
ED8A
VDD
DQ0
VDDQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VDDQ
DQ5
DQ6
VSSQ
DQ7
VDD
LDQM
WE
CAS
RAS
CS
BA0
BA1
A10
A0
A1
A2
A3
VDD
VSS
DQ15
VSSQ
DQ14
DQ13
VDDQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VDDQ
DQ8
VSS
NC
UDQM
CLK
CKE
NC
A11
A9
A8
A7
A6
A5
A4
VSS
K4S281632F-UC75-TBB
IC3003
D+3V3
1/16W
10k
R3016
NOTRESET_FLASH
[DEMUX]
EC6A
EC4A
EC3A
EC2A
EC1A
R3017
0 1/16W
SD_WE
SD_CAS
SD_RAS
SD_CS
EA17A
EA18A
EA12A
EA2A
EA3A
EA4A
EA5A
EC5A
EC0A
SD_CLK
D+3V3
1/16W
10k
R3019
EA13A
EA11A
EA10A
EA9A
EA8A
EA7A
EA6A
C3016
0.1/16
EMI
128Mbit
Bank 0

3.31 TUNER BOARD ASSY (4/6)

I 4/6 TUNER BOARD ASSY (AWE1301)

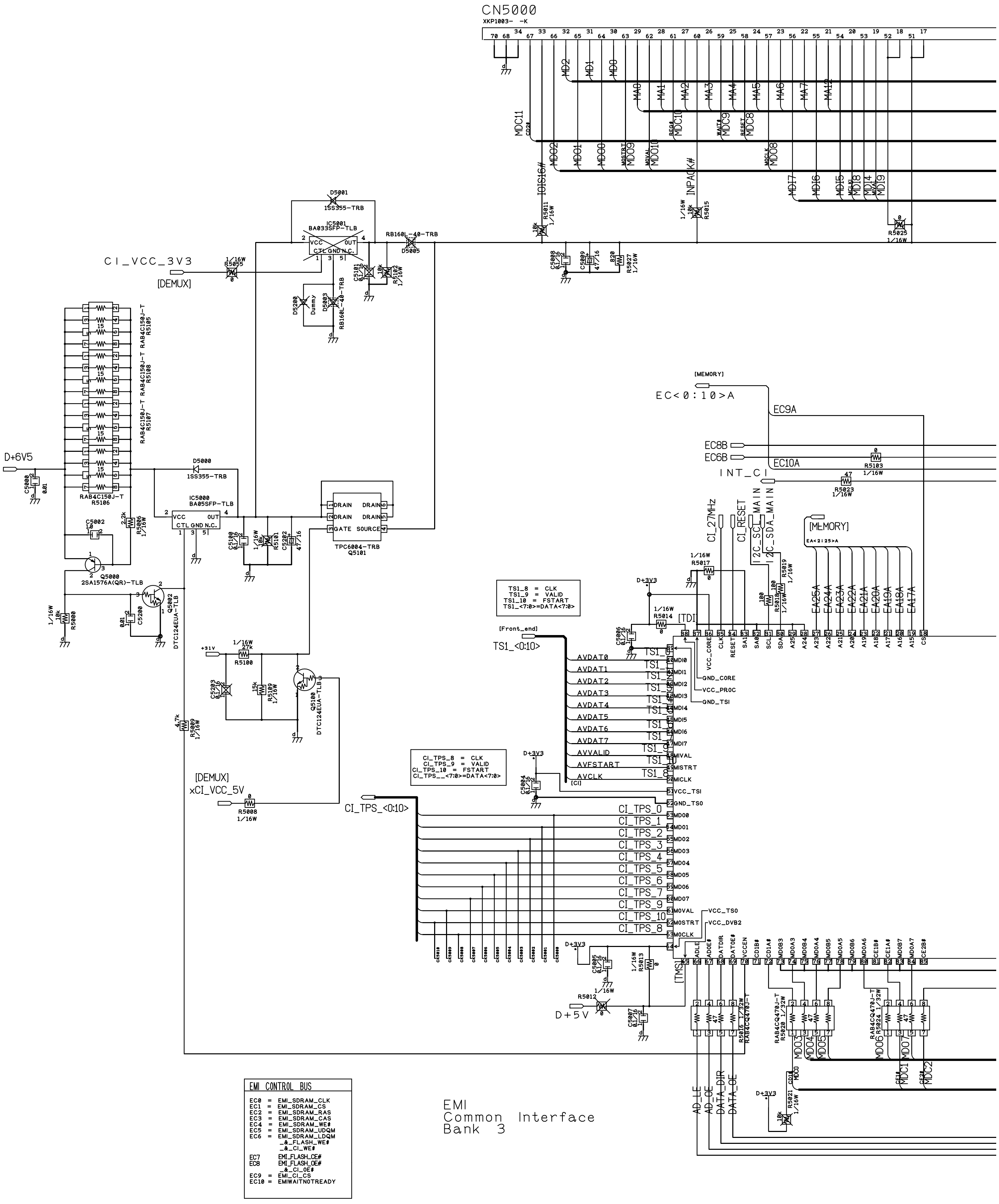

[CPLD/POWER]
D+5V
[DEMUX]
I2C_SCL_MAIN
I2C_SDA_MAIN
SPDIF
AV_RESET
R4015 100 1/16W
R4016 100 1/16W
C4013 0.1/16
R4017
R4019
R4021
R4023
R4027
R4030
C4018 0.1/16
C4024 0.1/16
R4039
R4041
R4043
R4046
R4050
SDA/CDOUT
AD0/CS
AD2
RXP
TEST
VD
RST
LRCK
SCLK
SDIN
SCL/CCLK
AD1/CDIN
TXP
TXN
H/S
VL
GND
OMCK
U
INT
TCBL
IC4003
CS8406CZZ-TBB
R4018
R4020
R4022
R4024
R4028
R4031
R4040
R4042
R4044
R4047
R4051 47k 1/16W
SN74LVU04APW-TBB
IC4000
R4100 47 1/16W
R4101 47 1/16W
D+3V3
VTF1091- -T
F4000
C4000
C4001
C4003
VCC
R4009
R4008 1M 1/16W
R4010
X4000
XSS1006- -T
12.288MHz
C4004 22p
C4007 22p
[CPLD/POWER]
A+5V
R4036 4.7 1/16W
C4014 0.1/16
C4015 2.2/50
R4025 10k 1/16W
C4026 0.1/16
C4027 2.2/50
IC4008
CS5340CZZ-TBB
M0
MCLK
VL
SDOUT
GND
VD
SCLK
LRCK
M1
FILT+
REF_GND
VA
AINR
VQ
AINL
RST
C4028 0.1/16
C4032 2.2/50
C4029 0.1/16
C4033 2.2/50
R4026
C4016 0.1/16
A+5V
C4100 47/16
C4030 0.01
R4102 10k 1/16W
Q4200
DTC124EUA-TLB
R4114 47k 1/16W
R4113 75 1/16W
Q4102
2SC4081(
R4111 47k 1/16W
R4112 1k 1/16W
AV BUS
AV0 CVBS
AV1 Y
AV2 C
AV3 R
AV4 G
AV5 B
AV<0:5>
ANA_AUD<0:3>
ANA_AUD BUS
ANA_AUD0 PRIGHT
ANA_AUD1 MRIGHT
ANA_AUD2 PLEFT
ANA_AUD3 MLEFT
A+12V
R4004 0R 1/16W
R4002 470 1/16W
Dummy
C4006
C4008 47/16
A+5V
R4000 0 1/16W
D4000
R4005 470 1/16W
C4005 3300p
Dummy
IC4200
C4201
TSH72CDT-TBB
IC4001
C4012 2.2/10
ANA_AUD2
ANA_AUD3
R4007 22 1/16W
R4014 470 1/16W
C4010 3300p
R4012 22 1/16W
A+12V
R4001 470 1/16W
A+5V
D4001
R4003 470 1/16W
C4002 3300p
C4200
C4011 2.2/10
ANA_AUD0
ANA_AUD1
R4006 22 1/16W
R4013 470 1/16W
C4009 3300p
R4011 22 1/16W
AV5 B
AV4 G
AV3 R
C4023 10/16
C4021 10/16
C4025 10/16
R4103 47k 1/16W
R4104 75 1/16W
Q4100
2SC4081(
R4106 47k 1/16W
R4105 1k 1/16W
AV0 CVBS
AV1 Y
AV2 C
C4019 10/16
C4022 10/16
C4020 10/16
R4118 47k 1/16W
R4117 75 1/16W
Q4103
2SC4081(Q)
R4115 47k 1/16W
R4116 1k 1/16W
R4029 200 (F) 1/16W
R4032 200 (F) 1/16W
R4033 200 (F) 1/16W
R4034 200 (F) 1/16W
R4035 200 (F) 1/16W
R4037 200 (F) 1/16W



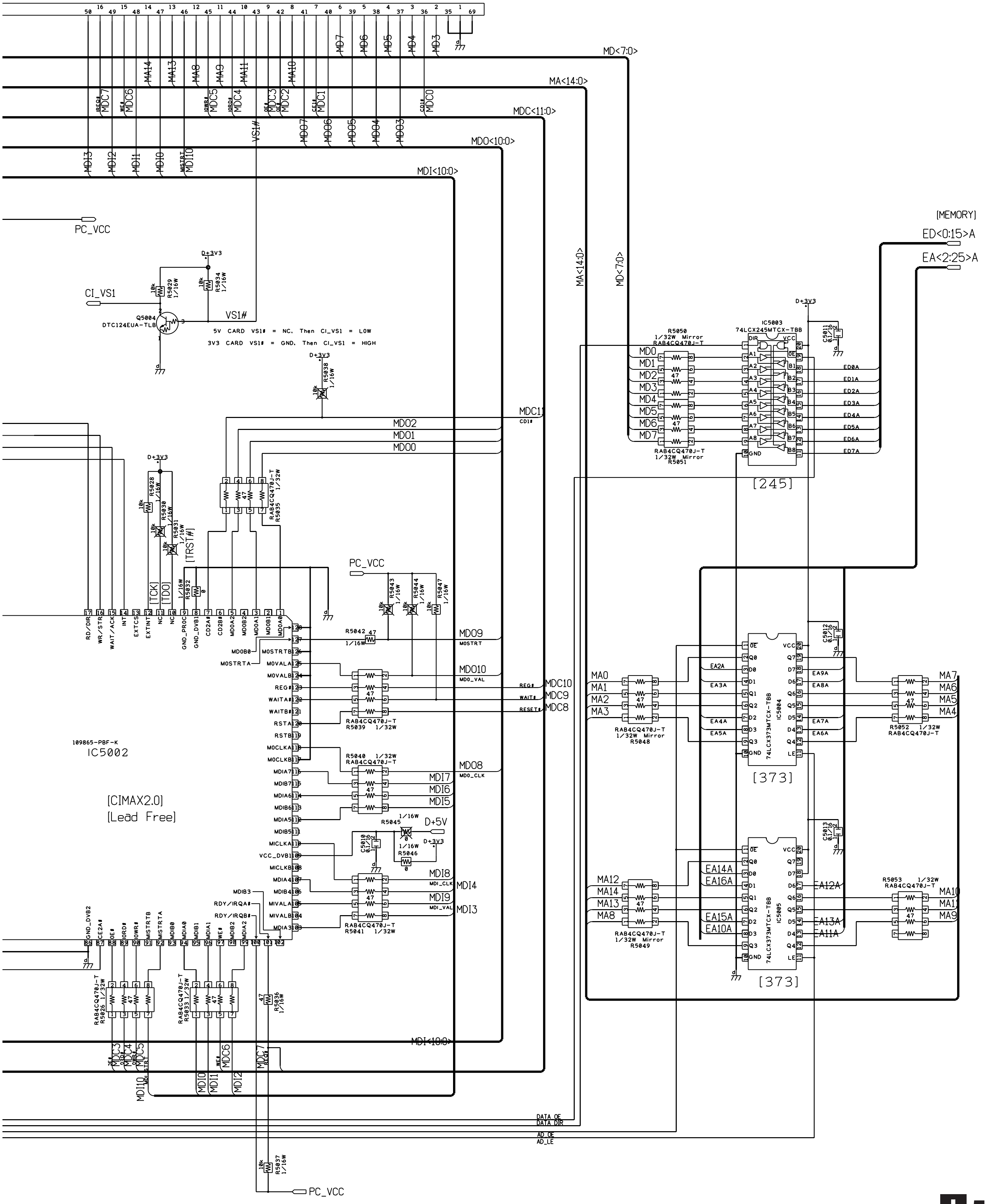
JA4000
GP1FM513TZ
GND
VCC
VIN
D+5V
SPDIF_OUT
R4080
0 1/16W
R4079
1/16W
150
R4208
10k
1/16W
C4056
100p
C4057
0.1/16
S/PDIF
optical
F1
[CPLD/POWER]
MR_FE_5V_SW
R4067
R4061
680
C4050
470p
IC4006
Dummy
R4062
82
C4046
2700p
R4071
47k 1/16W
R4072
47k
C4054
1/10(YB)
R4077
27k
R4075
68k
R4068
R4063
C4051
R4064
C4047
R4073
R4074
C4055
R4078
R4076
C4052
0.01
C4053
47/16
A+5V
A2
A3
LA_IN
RA_IN
A4
A5
A6
A7
A8
A9
A10
A11
B_OUT
G_OUT
R_OUT
CVBS_OUT
Y_OUT
C_OUT
LA_OUT
RA_OUT
R4200
R4201
R4202
R4203
R4204
R4205
47
1/16W
ZCP
CK4100
CK4101
CK4102
CK4103
CK4104
CK4105
CK4106
CK4107
CK4108
CK4109
CK4110
CK4111
A1
MR_FE_5V_SW
L_IN - 2Vrms
R_IN - 2Vrms
B_OUT
G_OUT
R_OUT
CVBS_OUT
Y_OUT
C_OUT
L_OUT - 2Vrms
R_OUT - 2Vrms
AKM1217- -TBB
CN4000
B 5/9 CN8662
C4103
0.01
C4102
0.01
C4101
0.01
C4048
0.01
C4104
0.01
QR)-TLB
R4107
47k
R4108
75
R4110
R4109
1k
Q4101
2SC4081(QR)-TLB
R4081
R4083
R4082
R4084
Q4000
2SC4081(QR)-TLB
R4122
R4121
R4120
R4119
Q4104
2SC4081(QR)-TLB
Dummy
D4002
D4004
D4006
D4008
D4010
D4012
D4003
D4005
D4007
D4009
D4011
D4013
R4206
R4207
10k

3.32 TUNER BOARD ASSY (5/6)

I 5/6 TUNER BOARD ASSY (AWE1301)

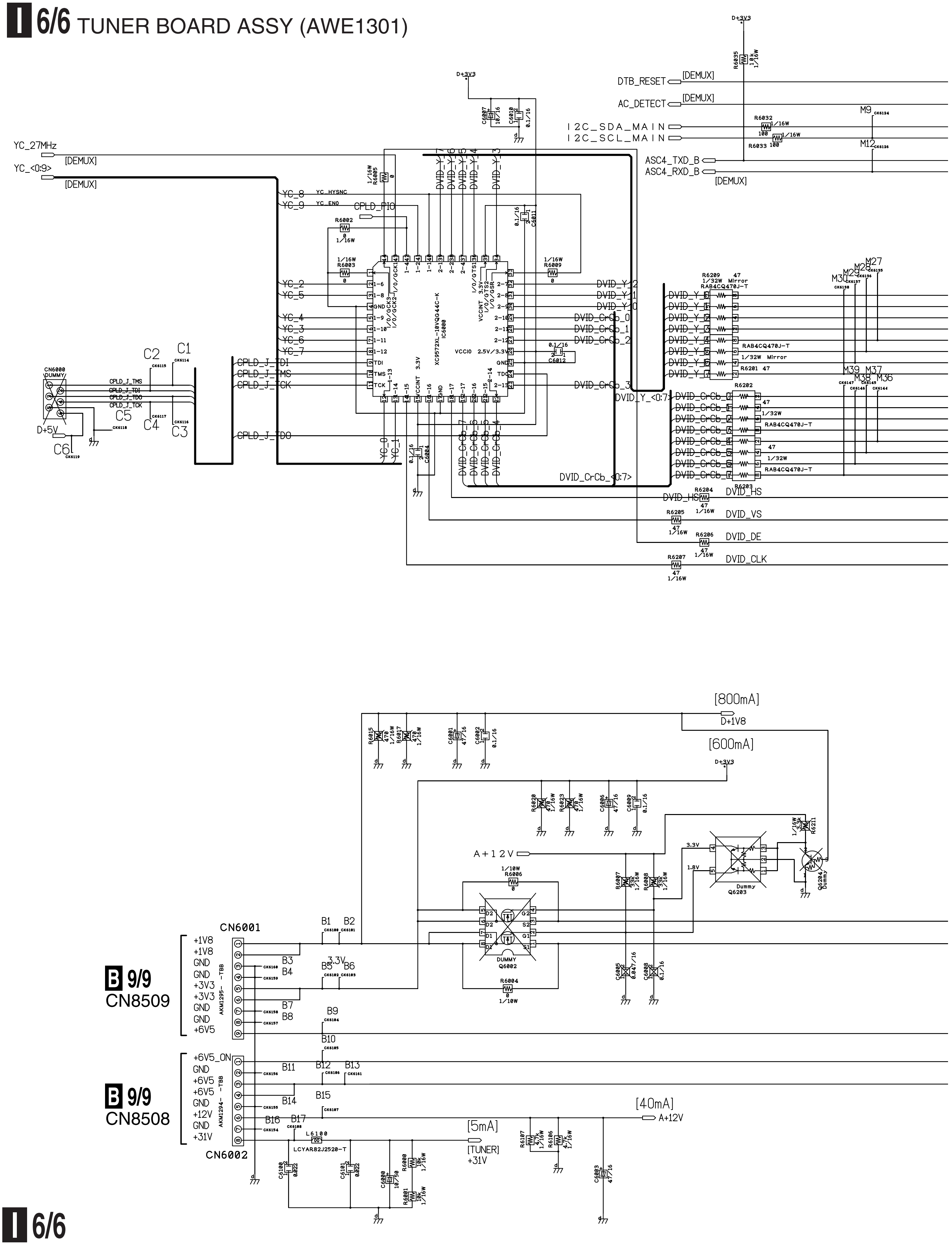

CN5000
XKP1003- -K
MD2
MD1
MD0
MA0
MA1
MA2
MA3
MA4
MA5
MA6
MA7
MA12
MDC11
MDC10
MDC9
MDC8
WAIT#
RESET
MDO2
MDO1
MDO0
MDO9
MOSTRT
MOVAL
MDO10
MOCLK
MDO8
IOIS16#
INPACK#
MDI7
MDI6
MDI5
MDI8
MDI4
MDI9
D5001
1SS355-TRB
IC5001
BA033SFP-TLB
RB160L-40-TRB
D5005
CI_VCC_3V3
[DEMUX]
R5055
D5200
Dummy
D5003
RB160L-40-TRB
C5101
R5102
R5011
R5015
C5008
C5009
R5027
R5025
RAB4C150J-T
R5105
R5108
R5107
R5106
D+6V5
C5000
D5000
1SS355-TRB
IC5000
BA05SFP-TLB
VCC OUT
CTL GND N.C.
C5002
R5006
Q5000
2SA1576A(QR)-TLB
Q5002
DTC124EUA-TLB
C5200
R5000
C5100
R5101
C5202
DRAIN
GATE
SOURCE
TPC6004-TRB
Q5101
+31V
R5100
C5203
R5109
Q5100
DTC124EUA-TLB
R5009
[DEMUX]
xCI_VCC_5V
R5008
[MEMORY]
EC<0:10>A
EC9A
EC8B
EC6B
EC10A
R5103
INT_CI
R5023
CI_27MHz
CI_RESET
I2C_SCL_MAIN
I2C_SDA_MAIN
[MEMORY]
EA<2:25>A
R5017
R5018
R5019
D+3V3
R5014
[TDI]
EA25A
EA24A
EA23A
EA22A
EA21A
EA20A
EA19A
EA18A
EA17A
TS1_8 = CLK
TS1_9 = VALID
TS1_10 = FSTART
TS1_<7:0>=DATA<7:0>
[Front_end]
TS1_<0:10>
C5006
AVDAT0
AVDAT1
AVDAT2
AVDAT3
AVDAT4
AVDAT5
AVDAT6
AVDAT7
AVVALID
AVFSTART
AVCLK
TS1_0
TS1_1
TS1_2
TS1_3
TS1_4
TS1_5
TS1_6
TS1_7
TS1_9
TS1_10
TS1_8
VCC_CORE
GND_CORE
VCC_PROC
GND_TSI
MDI0
MDI1
MDI2
MDI3
MDI4
MDI5
MDI6
MDI7
MIVAL
MISTRT
MICLK
VCC_TSI
GND_TSO
CI_TPS_8 = CLK
CI_TPS_9 = VALID
CI_TPS_10 = FSTART
CI_TPS__<7:0>=DATA<7:0>
C5004
[CI]
CI_TPS_<0:10>
CI_TPS_0
CI_TPS_1
CI_TPS_2
CI_TPS_3
CI_TPS_4
CI_TPS_5
CI_TPS_6
CI_TPS_7
CI_TPS_9
CI_TPS_10
CI_TPS_8
MDO0
MDO1
MDO2
MDO3
MDO4
MDO5
MDO6
MDO7
MOVAL
MOSTRT
MOCLK
VCC_TSO
VCC_DVB2
C5010
C5009
C5008
C5007
C5006
C5005
C5004
C5003
C5002
C5001
C5000
C5005
R5013
R5012
D+5V
C5007
[TMS]
ADLE
ADOE
DATDIR
DATOE#
VCCEN
CD1B#
CD1A#
MDOB3
MDOA3
MDOB4
MDOA4
MDOB5
MDOA5
MDOB6
MDOA6
CE1B#
CE1A#
MDOB7
MDOA7
CE2B#
R5016
RAB4CQ470J-T
R5020
R5024
MDO3
MDO4
MDO5
MDO6
MDO7
MDC1
MDC2
AD_LE
AD_OE
DATA_DIR
DATA_OE
R5021
EMI CONTROL BUS
EC0 = EMI_SDRAM_CLK
EC1 = EMI_SDRAM_CS
EC2 = EMI_SDRAM_RAS
EC3 = EMI_SDRAM_CAS
EC4 = EMI_SDRAM_WE#
EC5 = EMI_SDRAM_UDQM
EC6 = EMI_SDRAM_LDQM
_&_FLASH_WE#
_&_CI_WE#
EC7 EMI_FLASH_CE#
EC8 EMI_FLASH_OE#
_&_CI_OE#
EC9 = EMI_CI_CS
EC10 = EMIWAITNOTREADY
EMI
Common Interface
Bank 3

I 5/6

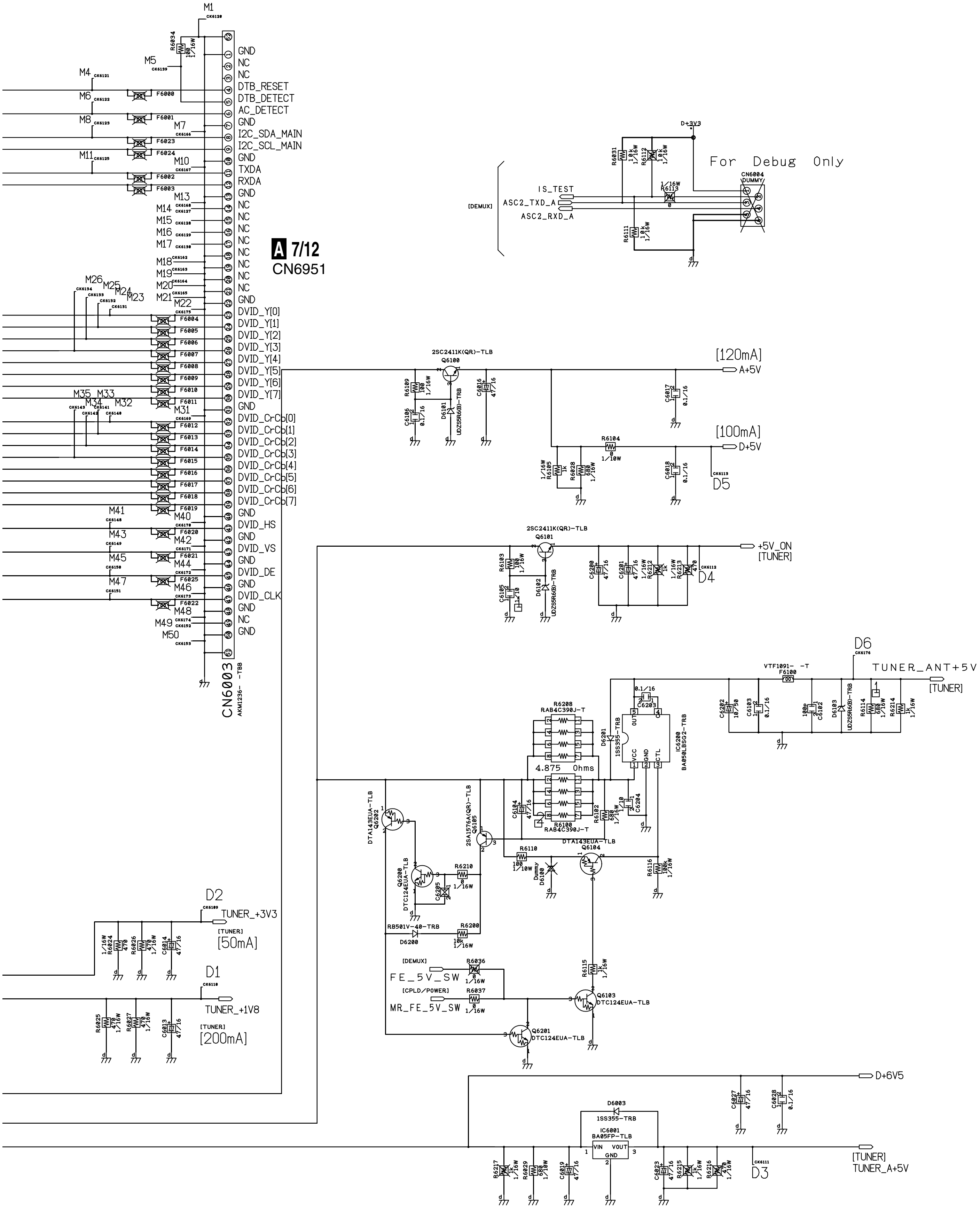

MD<7:0>
MA<14:0>
MDC<11:0>
MDO<10:0>
MDI<10:0>
PC_VCC
CI_VS1
Q5004
DTC124EUA-TLB
VS1#
5V CARD VS1# = NC. Then CI_VS1 = LOW
3V3 CARD VS1# = GND. Then CI_VS1 = HIGH
D+3V3
D+5V
[MEMORY]
ED<0:15>A
EA<2:25>A
IC5003
74LCX245MTCX-TBB
[245]
R5050
R5051
RAB4CQ470J-T
1/32W Mirror
ED0A
ED1A
ED2A
ED3A
ED4A
ED5A
ED6A
ED7A
MDC11
MDO2
MDO1
MDO0
R5035
[TCK]
[TDO]
[TRST#]
109865-PBF-K
IC5002
[CIMAX2.0]
[Lead Free]
MDO9
MDO10
MDC10
MDC9
MDC8
MDO8
MDI7
MDI6
MDI5
MDI8
MDI4
MDI9
MDI3
R5039
R5040
R5041
R5042
R5045
R5046
IC5004
74LCX373MTCX-TBB
[373]
IC5005
74LCX373MTCX-TBB
[373]
MA0
MA1
MA2
MA3
MA4
MA5
MA6
MA7
MA8
MA9
MA10
MA11
MA12
MA13
MA14
EA2A
EA3A
EA4A
EA5A
EA6A
EA7A
EA8A
EA9A
EA10A
EA11A
EA12A
EA13A
EA14A
EA15A
EA16A
R5048
R5049
R5052
R5053
DATA_OE
DATA_DIR
AD_OE
AD_LE
R5036
R5037
A
B
C
D
E
F

3.33 TUNER BOARD ASSY (6/6)

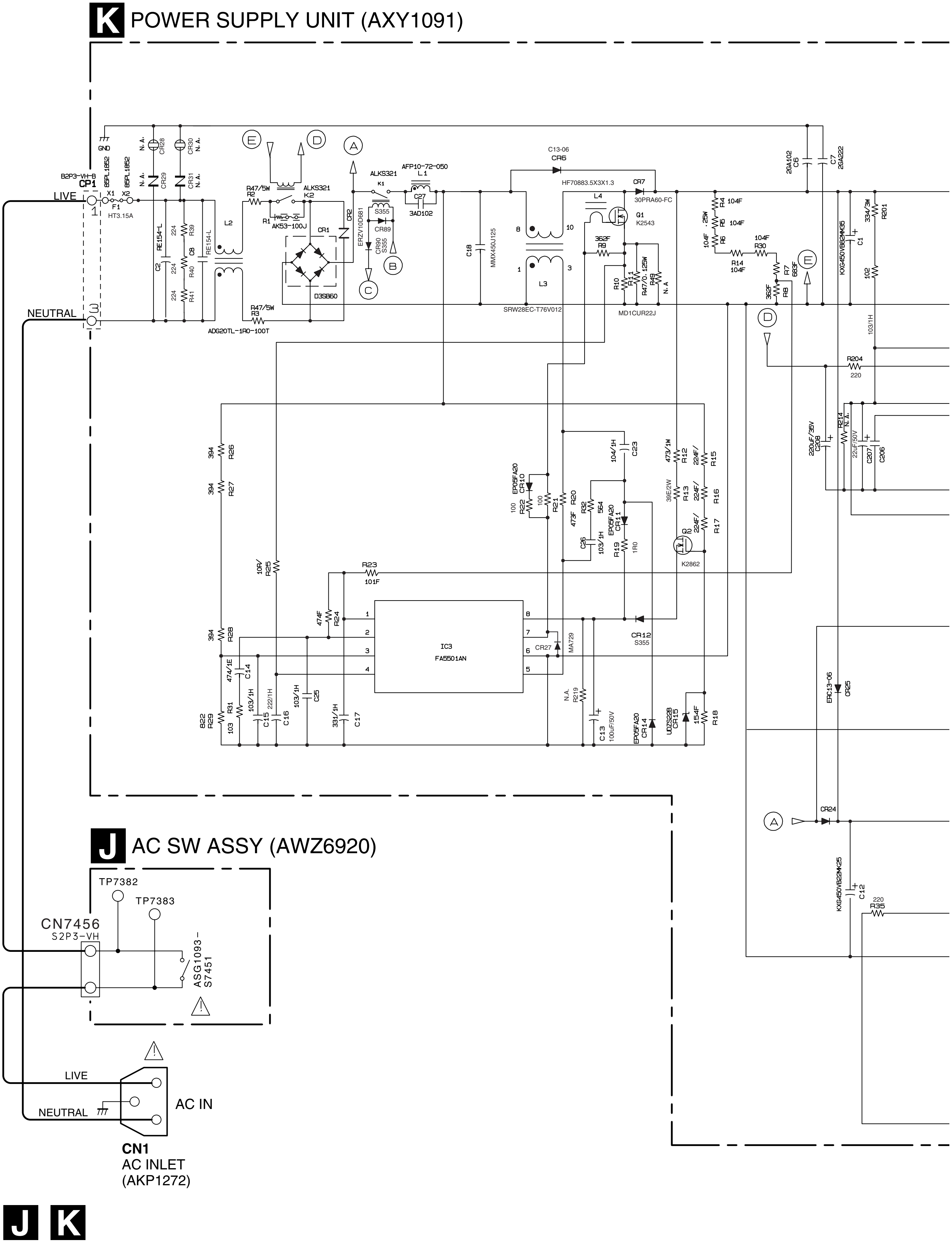
I 6/6 TUNER BOARD ASSY (AWE1301)

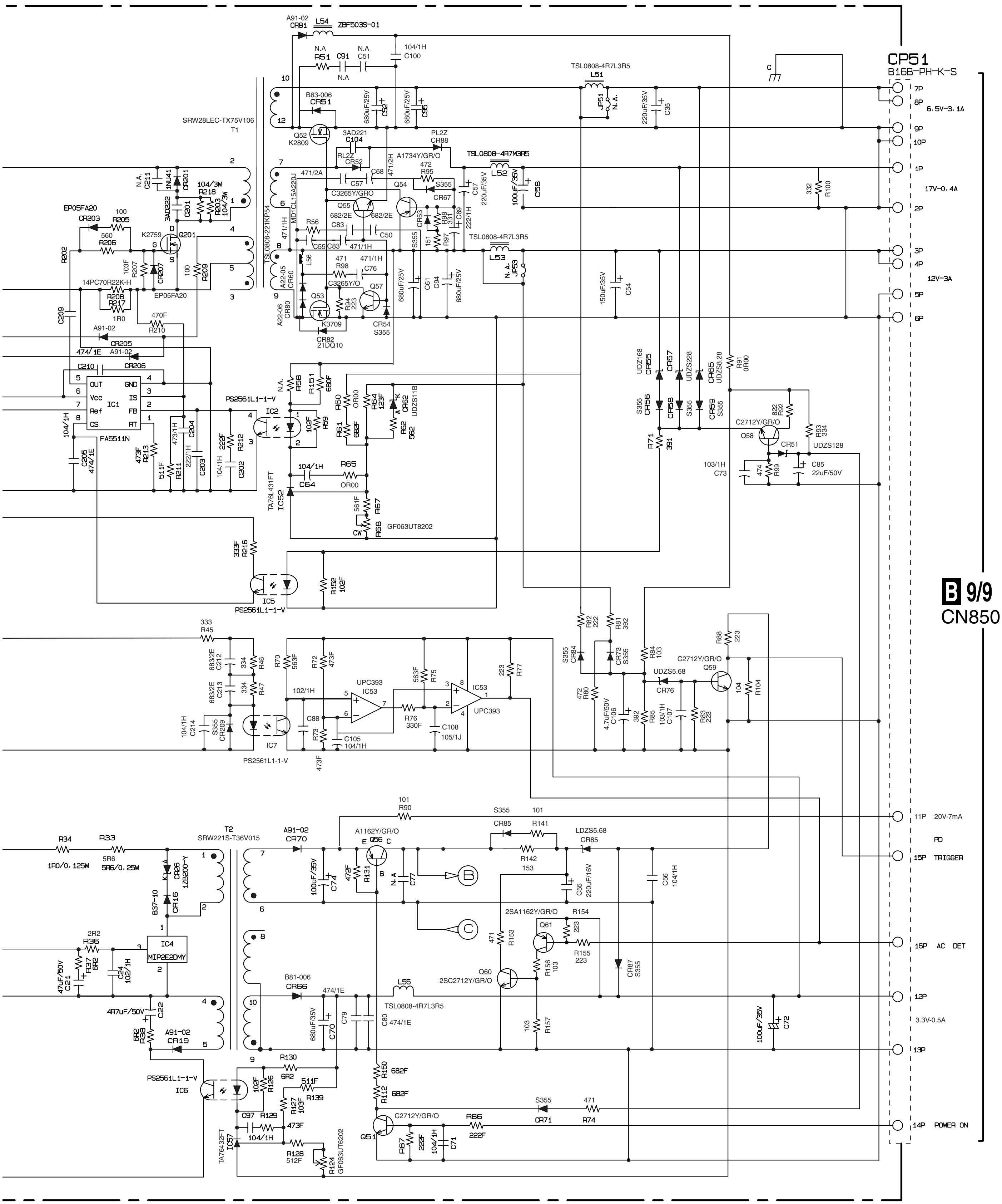

D+3V3
R6035
10k
1/16W
DTB_RESET
[DEMUX]
AC_DETECT
[DEMUX]
I2C_SDA_MAIN
I2C_SCL_MAIN
R6032
100
1/16W
R6033
100
1/16W
M9
CK6134
M12
CK6126
ASC4_TXD_B
ASC4_RXD_B
[DEMUX]
YC_27MHz
[DEMUX]
YC_<0:9>
[DEMUX]
C6007
10/16
C6010
0.1/16
R6005
0
1/16W
DVID_Y_7
DVID_Y_6
DVID_Y_5
DVID_Y_4
DVID_Y_3
YC_8
YC_9
YC_HYSNC
YC_EN0
CPLD_PIO
R6002
0
1/16W
C6011
0.1/16
R6003
0
1/16W
R6009
0
1/16W
YC_2
YC_5
YC_4
YC_3
YC_6
YC_7
I/O/GCK3
I/O/GCK2
I/O/GCK1
I/O/GTS1
I/O/GTS2
I/O/GSR
VCCINT 3.3V
XC9572XL-10VQG44C-K
IC6000
VCCIO 2.5V/3.3V
GND
TDI
TMS
TCK
TDO
DVID_Y_2
DVID_Y_1
DVID_Y_0
DVID_CrCb_0
DVID_CrCb_1
DVID_CrCb_2
DVID_CrCb_3
C6012
0.1/16
CN6000
DUMMY
C1
CK6114
C2
CK6115
C3
CK6116
C4
CK6117
C5
CK6118
C6
CK6119
D+5V
CPLD_J_TMS
CPLD_J_TDI
CPLD_J_TDO
CPLD_J_TCK
YC_0
YC_1
C6004
0.1/16
DVID_CrCb_7
DVID_CrCb_6
DVID_CrCb_5
DVID_CrCb_4
DVID_CrCb_<0:7>
DVID_Y_<0:7>
R6209
47
1/32W Mirror
RAB4CQ470J-T
R6201
47
1/32W Mirror
RAB4CQ470J-T
R6202
47
1/32W
RAB4CQ470J-T
R6203
47
1/32W
RAB4CQ470J-T
M27
M28
M29
M30
CK6135
CK6136
CK6137
CK6138
M36
M37
M38
M39
CK6144
CK6145
CK6146
CK6147
DVID_HS
R6204
47
1/16W
DVID_VS
R6205
47
1/16W
DVID_DE
R6206
47
1/16W
DVID_CLK
R6207
47
1/16W
[800mA]
D+1V8
R6015
470
1/16W
R6017
470
1/16W
C6001
47/16
C6002
0.1/16
[600mA]
D+3V3
R6020
470
1/16W
R6023
470
1/16W
C6006
47/16
C6009
0.1/16
R6211
3.3k
1/16W
A+12V
3.3V
1.8V
Dummy
Q6203
Q6204
Dummy
R6006
0
1/10W
R6007
33k
1/16W
R6008
33k
1/16W
D2
D2
D1
D1
G2
S2
G1
S1
DUMMY
Q6002
R6004
0
1/10W
C6005
0.047/16
C6008
0.1/16
CN6001
B 9/9
CN8509
AKM1295- -TBB
+1V8
+1V8
GND
GND
+3V3
+3V3
GND
GND
+6V5
B1
B2
CK6100
CK6101
B3
B4
CK6160
CK6159
3.3V
B5
B6
CK6102
CK6103
B7
B8
CK6158
CK6157
B9
CK6104
B10
CK6105
B 9/9
CN8508
AKM1294- -TBB
+6V5_ON
GND
+6V5
+6V5
GND
+12V
GND
+31V
CN6002
B11
CK6156
B12
CK6106
B13
CK6161
B14
CK6155
B15
CK6107
B16
CK6154
B17
CK6108
[40mA]
A+12V
L6100
LCYAR82J2520-T
[5mA]
[TUNER]
+31V
R6107
4.7k
1/16W
R6106
4.7k
1/16W
C6100
0.022
C6101
0.022
C6000
10/50
R6000
10k
1/16W
R6001
10k
1/16W
C6003
47/16

I 6/6


M1
CK6120
R6034
100
1/16W
GND
NC
NC
DTB_RESET
DTB_DETECT
AC_DETECT
GND
I2C_SDA_MAIN
I2C_SCL_MAIN
GND
TXDA
RXDA
GND
NC
NC
NC
NC
NC
NC
NC
NC
NC
GND
DVID_Y[0]
DVID_Y[1]
DVID_Y[2]
DVID_Y[3]
DVID_Y[4]
DVID_Y[5]
DVID_Y[6]
DVID_Y[7]
GND
DVID_CrCb[0]
DVID_CrCb[1]
DVID_CrCb[2]
DVID_CrCb[3]
DVID_CrCb[4]
DVID_CrCb[5]
DVID_CrCb[6]
DVID_CrCb[7]
GND
DVID_HS
GND
DVID_VS
GND
DVID_DE
GND
DVID_CLK
GND
NC
GND
CN6003
AKM1236- -TBB
A 7/12
CN6951
F6000
F6001
F6023
F6024
F6002
F6003
F6004
F6005
F6006
F6007
F6008
F6009
F6010
F6011
F6012
F6013
F6014
F6015
F6016
F6017
F6018
F6019
F6020
F6021
F6025
F6022
M4 M5 M6 M7 M8 M10 M11 M13 M14 M15 M16 M17 M18 M19 M20 M21 M22
M23 M24 M25 M26 M31 M32 M33 M34 M35 M40 M41 M42 M43 M44 M45 M46 M47 M48 M49 M50
D+3V3
R6031
R6112
1/16W
For Debug Only
CN6004
DUMMY
IS_TEST
ASC2_TXD_A
ASC2_RXD_A
[DEMUX]
R6113
R6111
2SC2411K(QR)-TLB
Q6100
R6109
C6106
D6101
UDZS5R6(B)-TRB
C6016
47/16
[120mA]
A+5V
C6017
0.1/16
R6104
1/10W
[100mA]
D+5V
R6105
R6028
C6018
CK6119
D5
2SC2411K(QR)-TLB
Q6101
R6103
C6105
D6102
C6200
C6201
R6212
R6213
+5V_ON
[TUNER]
CK6112
D4
D6
CK6176
VTF1091- -T
F6100
TUNER_ANT+5V
[TUNER]
C6202
C6103
C6102
D6103
R6114
R6214
R6208
RAB4C390J-T
4.875 Ohms
R6100
RAB4C390J-T
D6201
1SS355-TRB
C6203
0.1/16
IC6200
BA05LBSG2-TRB
OUT VCC GND CTL
C6104
R6102
C6204
DTA143EUA-TLB
Q6202
2SA1576A(QR)-TLB
Q6105
R6110
D6100
Dummy
DTA143EUA-TLB
Q6104
R6116
Q6200
DTC124EUA-TLB
R6210
C6205
RB501V-40-TRB
D6200
R6200
D2
CK6109
TUNER_+3V3
[TUNER]
[50mA]
R6024
R6026
C6014
47/16
D1
CK6110
TUNER_+1V8
[TUNER]
[200mA]
R6025
R6027
C6013
[DEMUX]
R6036
FE_5V_SW
[CPLD/POWER]
R6037
MR_FE_5V_SW
R6115
Q6103
DTC124EUA-TLB
Q6201
DTC124EUA-TLB
D+6V5
C6027
C6028
D6003
1SS355-TRB
IC6001
BA05FP-TLB
VIN VOUT GND
R6217
R6029
C6019
C6023
R6215
R6216
CK6111
D3
[TUNER]
TUNER_A+5V

3.34 POWER SUPPLY UNIT


K POWER SUPPLY UNIT (AXY1091)
GND
B2P3-VH-B
CP1
LIVE
NEUTRAL
X1
X2
F1
HT3.15A
85PL1852
N.A.
CR28
CR29
CR30
CR31
RE154-L
C2
C8
224
R39
R40
R41
L2
R47/5W
R2
R3
R1
ALKS321
K1
K2
AK53-100J
ADG20TL-1R0-100T
CR1
D3SB60
CR2
ERZV10D681
S355
CR89
CR90
AFP10-72-050
L1
C27
3AD102
C18
MMX450J125
C13-06
CR6
HF70883.5X3X1.3
CR7
30PRA60-FC
L3
L4
SRW28EC-T76V012
Q1
K2543
362F
R9
R10
R11
R47/0.125W
R49
MD1CUR22J
R4
R5
R6
104F
.25W
R14
R30
R7
683F
R8
C6
C7
2GA102
2GA222
C1
KXG450VB82MM35
334/3W
R201
102
103/1H
R204
220
R214
C208
220uF/35V
22uF/50V
C207
C206
394
R26
R27
R28
10A/
R25
R23
101F
474F
R24
IC3
FA5501AN
1
2
3
4
5
6
7
8
CR27
MA729
R22
100
CR10
EP05FA20
R21
R20
473F
R32
564
CR11
C26
103/1H
R19
1R0
C23
104/1H
473/1W
R12
39E/2W
R13
R15
R16
R17
224F/
Q2
K2862
CR12
S355
N.A.
R219
C13
100uF/50V
CR14
CR15
UDZS22B
154F
R18
822
R29
R31
103
474/1E
C14
103/1H
C15
222/1H
C16
C25
331/1H
C17
ERC13-06
CR25
CR24
KXG450VB22MK25
C12
R35
J AC SW ASSY (AWZ6920)
TP7382
TP7383
CN7456
S2P3-VH
ASG1093-
S7451
⚠
LIVE
NEUTRAL
AC IN
CN1
AC INLET
(AKP1272)
J K



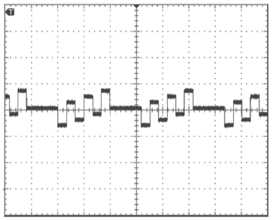
CP51
B16B-PH-K-S
7P
8P 6.5V-3.1A
9P
10P
1P
17V-0.4A
2P
3P
4P
12V-3A
5P
6P
11P 20V-7mA
PD
15P TRIGGER
16P AC DET
12P
3.3V-0.5A
13P
14P POWER ON
B 9/9
CN8501
A91-02
CR81
L54
ZBF503S-01
104/1H
C100
N.A
R51
C91
C51
SRW28LEC-TX75V106
T1
B83-006
CR51
680uF/25V
C52
C95
TSL0808-4R7L3R5
L51
JP51
N.A.
220uF/35V
C35
Q52
K2809
3AD221
C104
PL2Z
CR88
TSL0808-4R7M3R5
L52
RL2Z
CR52
A1734Y/GR/O
472
R95
471/2A
C57
C68
471/2H
S355
CR67
220uF/35V
100uF/35V
C58
332
R100
MD1CL15A220J
C3265Y/GRO
Q54
Q55
682/2E
CR53
R98
331
C69
222/1H
TSL0808-221KP54
R56
C83
C50
S355
151
R97
TSL0808-4R7L3R5
L53
JP53
C55
471/1H
L56
471
R98
C76
A22-05
CR60
C3265Y/O
Q57
680uF/25V
C61
C94
150uF/35V
C54
A22-06
CR80
Q53
R94
223
K3709
CR54
S355
CR82
21DQ10
N.A.
C211
1NJ41
CR201
104/3W
R218
R203
3AD222
C201
EP05FA20
CR203
100
R205
560
R206
K2759
Q201
R202
103F
R207
CR207
R209
14PC70R22K-H
R208
R217
1R0
EP05FA20
C209
470F
R210
A91-02
CR205
474/1E
CR206
C210
OUT
GND
Vcc
IS
Ref
FB
CS
RT
IC1
FA5511N
104/1H
C205
474/1E
473F
R213
473/1H
C204
511F
R211
222/1H
C203
222F
R212
104/1H
C202
PS2561L1-1-V
IC2
R58
R151
680F
R60
0R00
R64
123F
CR62
UDZS11B
102F
R59
R61
682F
R62
562
104/1H
C64
R65
0R00
TA76L431FT
IC52
561F
R67
R68
CW
GF063UT8202
UDZ168
CR55
CR57
UDZS228
CR65
UDZS8.28
R91
0R00
S355
CR56
CR58
CR59
822
R92
C2712Y/GR/O
Q58
R93
334
CR51
UDZS128
R71
391
103/1H
C73
474
R99
C85
22uF/50V
333F
R216
R152
102F
IC5
PS2561L1-1-V
333
R45
683/2E
C212
334
R46
682/2E
C213
R47
104/1H
C214
S355
CR209
IC7
PS2561L1-1-V
R70
563F
R72
473F
UPC393
IC53
102/1H
C88
R73
473F
C105
104/1H
R76
330F
563F
R75
C108
105/1J
223
R77
S355
CR84
R82
222
R81
392
CR73
S355
R84
103
UDZS5.68
CR76
C2712Y/GR/O
Q59
R88
223
472
R80
4.7uF/50V
C106
392
R85
103/1H
C107
R83
223
104
R104
101
R90
S355
101
CR85
R141
LDZS5.68
R142
153
C55
220uF/16V
C56
104/1H
A1162Y/GR/O
Q56
A91-02
CR70
100uF/35V
C74
472F
R131
N.A
C77
T2
SRW221S-T36V015
R34
1R0/0.125W
R33
5R6
5R6/0.25W
CR26
1ZB200-Y
B37-10
CR16
2R2
R36
IC4
MIP2E2DMY
R37
6R2
47uF/50V
C21
C24
102/1H
4R7uF/50V
C22
6R2
R38
A91-02
CR19
2SA1162Y/GR/O
R154
Q61
223
471
R153
R155
223
R156
103
Q60
2SC2712Y/GR/O
CR87
S355
B81-006
CR66
474/1E
L55
TSL0808-4R7L3R5
680uF/35V
C70
C79
C80
474/1E
103
R157
100uF/35V
C72
R130
6R2
511F
R139
PS2561L1-1-V
IC6
102F
R126
R127
103F
C97
R129
104/1H
473F
R128
512F
R124
GF063UT6202
TA76432FT
IC57
R150
682F
R112
682F
S355
CR71
471
R74
C2712Y/GR/O
R86
222F
Q51
R87
222F
104/1H
C71

3.35 WAVEFORMS

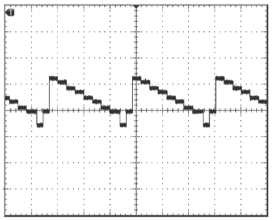
Note : The encircled numbers denote measuring point in the schematic diagram.

A MR MAIN BOARDASSY

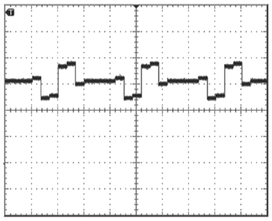
① **TP6402 (Component B)**
V: 500mV/div. H: 20µsec/div.



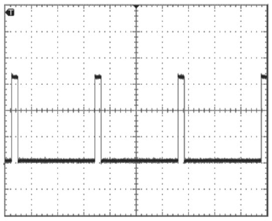
② **TP6403 (Component G)**
V: 500mV/div. H: 20µsec/div.



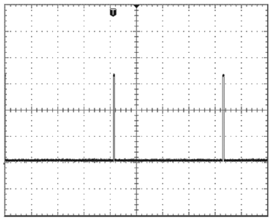
③ **TP6404 (Component R)**
V: 500mV/div. H: 20µsec/div.



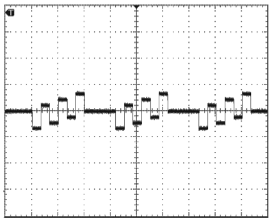
④ **TP6405 (HD2_MAIN)**
V: 1V/div. H: 20µsec/div.



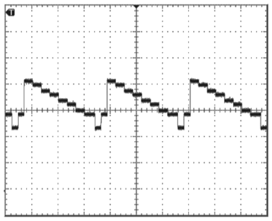
⑤ **TP6406 (VD2_MAIN)**
V: 1V/div. H: 400msec/div.



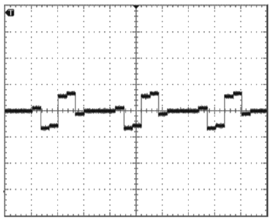
⑥ **TP6604 (Component B)**
V: 500mV/div. H: 20µsec/div.



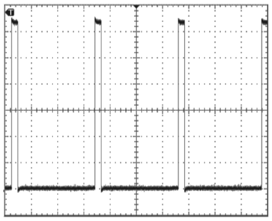
⑦ **TP6605 (Component G)**
V: 500mV/div. H: 20µsec/div.



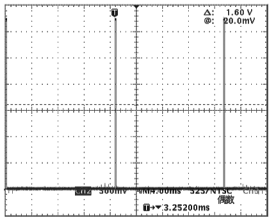
⑧ **TP6606 (Component R)**
V: 500mV/div. H: 20µsec/div.



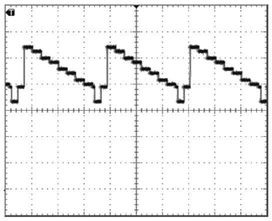
⑨ **TP6607 (HD2_SUB)**
V: 500mV/div. H: 20µsec/div.



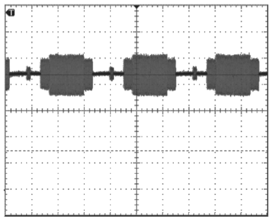
⑩ **TP6608 (VD2_SUB)**
V: 500mV/div. H: 4msec/div.



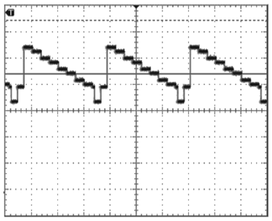
⑪ **TP7451 (MAIN_Y)**
V: 1V/div. H: 20µsec/div.



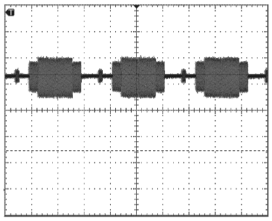
⑫ **TP7452 (MAIN_C)**
V: 1V/div. H: 20µsec/div.



⑬ **TP7456 (SUB_Y)**
V: 1V/div. H: 20µsec/div.

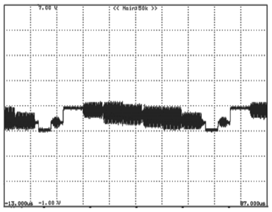


⑭ **TP7457 (SUB_C)**
V: 1V/div. H: 20µsec/div.

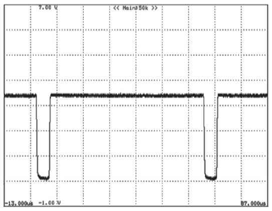


B AV BOARD ASSY

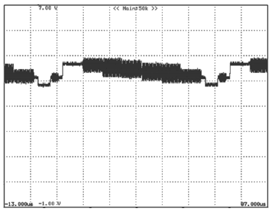
① **TP7502 (AIR_V)**
V: 1V/div. H: 10µsec/div.



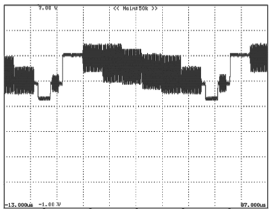
② **R7522 - R7534 (AIR_HS)**
V: 1V/div. H: 10µsec/div.



③ **IC8002-pin 63 (AIR_V)**
V: 1V/div. H: 10µsec/div.



④ **IC8002-pin 44 (MAIN_Y)**
V: 1V/div. H: 10µsec/div.



3.36 VOLTAGES

B AV BOARD ASSY **A** MR MAIN BOARD ASSY

CN8654 (AKM1201)		Voltage (V)	CN7455 (AKM1201)	
No.	Name		Name	No.
1	RAPID_DT_3		RAPID_DT_3	50
2	RAPID_DT_1		RAPID_DT_1	49
3	AUDIO_R	0	AUDIO_R	48
4	GND	0	GND	47
5	AUDIO_L	0	AUDIO_L	46
6	GND	0	GND	45
7	HDMI_RCH	0	HDMI_RCH	44
8	GND	0	GND	43
9	HDMI_LCH	0	HDMI_LCH	42
10	GND	0	GND	41
11	PIXEL_CLK_IN		PIXEL_CLK_IN	40
12	TTX_RGB_DIG15		TTX_RGB_DIG15	39
13	TTX_RGB_DIG14		TTX_RGB_DIG14	38
14	TTX_RGB_DIG13		TTX_RGB_DIG13	37
15	TTX_RGB_DIG12		TTX_RGB_DIG12	36
16	TTX_RGB_DIG11		TTX_RGB_DIG11	35
17	TTX_RGB_DIG10		TTX_RGB_DIG10	34
18	TTX_RGB_DIG9		TTX_RGB_DIG9	33
19	TTX_RGB_DIG8		TTX_RGB_DIG8	32
20	TTX_RGB_DIG7		TTX_RGB_DIG7	31
21	TTX_RGB_DIG6		TTX_RGB_DIG6	30
22	TTX_RGB_DIG5		TTX_RGB_DIG5	29
23	TTX_RGB_DIG4		TTX_RGB_DIG4	28
24	TTX_RGB_DIG3		TTX_RGB_DIG3	27
25	TTX_RGB_DIG2		TTX_RGB_DIG2	26
26	TTX_RGB_DIG1		TTX_RGB_DIG1	25
27	TTX_RGB_DIG0		TTX_RGB_DIG0	24
28	AIR_AFT	1.8	AIR_AFT	23
29	AIR_HS	0.5	AIR_HS	22
30	RST_IF	3.3	RST_IF	21
31	TXD_WR	3.3	TXD_WR	20
32	RXD_WR	3.3	RXD_WR	19
33	SDA_AV	5	SDA_AV	18
34	SCL_AV	5	SCL_AV	17
35	RXD_IF	3.3	RXD_IF	16
36	TXD_IF	3.3	TXD_IF	15
37	CLK_IF	3.3	CLK_IF	14
38	REQ_IF	0	REQ_IF	13
39	BUSY_IF	0	BUSY_IF	12
40	CE_IF	3.3	CE_IF	11
41	RESET_TXT	3.3	RESET_TXT	10
42	RELAY	2.4	RELAY	9
43	REM_B	3.3	REM_B	8
44	PSW1	0	PSW1	7
45	PD_MAIN	0	PD_MAIN	6
46	WE_ROM	0	WE_ROM	5
47	AM_MUTE	0	AM_MUTE	4
48	HP_VOL		HP_VOL	3
49	HP_MUTE		HP_MUTE	2
50	ELITE_DET		ELITE_DET	1

B AV BOARD ASSY **A** MR MAIN BOARD ASSY

CN8651 (KM200NA15)		Voltage (V)	CN7451 (AKM1301)	
No.	Name		Name	No.
1	GND	0.0	GND	15
2	V+3V_STB	3.3	V+3V_STB	14
3	GND	0.0	GND	13
4	V+3V_UCOM	3.3	V+3V_UCOM	12
5	GND	0.0	GND	11
6	V+12V_16V	16.9	V+12V_16V	10
7	GND	0.0	GND	9
8	V+6V	6.7	V+6V	8
9	GND_D	0.0	GND_D	7
10	V+1V_DD	1.5	V+1V_DD	6
11	V+1V_DD	1.5	V+1V_DD	5
12	GND_D	0.0	GND_D	4
13	V+3V_DD	3.3	V+3V_DD	3
14	V+3V_DD	3.3	V+3V_DD	2
15	GND_D	0.0	GND_D	1

B AV BOARD ASSY **L** PC CARD MODULE

CN8660 (AKM1233)		Voltage (V)	CN501	
No.	Name		Name	No.
1	RXD_CARD	3.32	RXD_CARD	12
2	TXD_CARD	3.33	TXD_CARD	11
3	NC		NC	10
4	CARD_V	3.31	CARD_V	9
5	CARD_H	3.31	CARD_H	8
6	GND	0.00	GND	7
7	GND	0.00	GND	6
8	YUVD1_B	0.51	YUVD1_B	5
9	GND	0.00	GND	4
10	YUVD1_G	0.56	YUVD1_G	3
11	GND	0.00	GND	2
12	YUVD1_R	0.52	YUVD1_R	1

B AV BOARD ASSY **L** PC CARD MODULE

CN8502 (KM200NA6)		Voltage (V)	CN1	
No.	Name		Name	No.
1	V+3V_CARD	3.35	V+3V_CARD	1
2	V+3V_CARD	3.35	V+3V_CARD	2
3	GND	0.00	GND	3
4	GND	0.00	GND	4
5	V+5V_CARD	5.00	V+5V_CARD	5
6	GND	0.00	GND	6

B AV BOARD ASSY

A MR MAIN BOARD ASSY

CN8652 (AKM1201)		Voltage (V)	CN7454 (AKM1201)	
No.	Name		Name	No.
1	AC_DET	2.7	AC_DET	50
2	KEY_B	3.3	KEY_B	49
3	STB_MT	0	STB_MT	48
4	AC_OFF	0	AC_OFF	47
5	SDA_EP2	3.3	SDA_EP2	46
6	SCL_EP2	3.3	SCL_EP2	45
7	VCC_EP	3.3	VCC_EP	44
8	SDA_HDMI/TXT		SDA_HDMI/TXT	43
9	SCL_HDMI/TXT		SCL_HDMI/TXT	42
10	WE_TXT	0	WE_TXT	41
11	RXD_CARD		RXD_CARD	40
12	TXD_CARD		TXD_CARD	39
13	DSUB_DET	0	DSUB_DET	38
14	PN2	0	PN2	37
15	VD_TXT	0	VD_TXT	36
16	HD_TXT	0	HD_TXT	35
17	PCA_V_SUB	0	PCA_V_SUB	34
18	PCA_H_SUB	0	PCA_H_SUB	33
19	PCA_V	0	PCA_V	32
20	PCA_H	0	PCA_H	31
21	BLK	0	BLK	30
22	FBLK_SUB		FBLK_SUB	29
23	FBLK_MAIN		FBLK_MAIN	28
24	GND	0	GND	27
25	SUBC_Y	4.5	SUBC_Y	26
26	GND	0	GND	25
27	SUBC_PR	4.5	SUBC_PR	24
28	GND	0	GND	23
29	SUBC_PB	4.5	SUBC_PB	22
30	GND	0	GND	21
31	SUB_C	4.3	SUB_C	20
32	GND	0	GND	19
33	SUB_Y	3.7	SUB_Y	18
34	GND	0	GND	17
35	G_CCTXT	1.3	G_CCTXT	16
36	GND	0	GND	15
37	R_CCTXT	1.3	R_CCTXT	14
38	GND	0	GND	13
39	B_CCTXT	1.3	B_CCTXT	12
40	GND	0	GND	11
41	MAINC_Y	4.5	MAINC_Y	10
42	GND	0	GND	9
43	MAINC_PR	4.5	MAINC_PR	8
44	GND	0	GND	7
45	MAINC_PB	4.5	MAINC_PB	6
46	GND	0	GND	5
47	MAIN_C	4.4	MAIN_C	4
48	GND	0	GND	3
49	MAIN_Y	4.4	MAIN_Y	2
50	GND	0	GND	1

I TUNER BOARD ASSY

A MR MAIN BOARD ASSY

CN6003 (AKM1236)		Voltage (V)	CN6951 (AKM1201)	
No.	Name		Name	No.
1	GND	0	GND	50
2	N.C.	–	N.C.	49
3	N.C.	–	N.C.	48
4	RESET	3.37	RST_DT	47
5	DTB_DET	0	DT_DET	46
6	AC_DETECT		AC_DETECT	45
7	GND	0	GND	44
8	SDA_MAIN		SDA_MAIN	43
9	SCL_MAIN		SCL_MAIN	42
10	GND	0	GND	41
11	TXDA	3.3	RXDA	40
12	RXDA	3.3	TXDA	39
13	N.C.	–	N.C.	38
14	N.C.	–	N.C.	37
15	N.C.	–	N.C.	36
16	N.C.	–	N.C.	35
17	N.C.	–	N.C.	34
18	N.C.	–	N.C.	33
19	N.C.	–	N.C.	32
20	N.C.	–	N.C.	31
21	N.C.	–	N.C.	30
22	GND	0	GND	29
23	DVID_Y0	0/3.3	DVID_Y0	28
24	DVID_Y1	0/3.3	DVID_Y1	27
25	DVID_Y2	0/3.3	DVID_Y2	26
26	DVID_Y3	0/3.3	DVID_Y3	25
27	DVID_Y4	0/3.3	DVID_Y4	24
28	DVID_Y5	0/3.3	DVID_Y5	23
29	DVID_Y6	0/3.3	DVID_Y6	22
30	DVID_Y7	0/3.3	DVID_Y7	21
31	GND	0	GND	20
32	DVID_PbPr0	0/3.3	DVID_PbPr0	19
33	DVID_PbPr1	0/3.3	DVID_PbPr1	18
34	DVID_PbPr2	0/3.3	DVID_PbPr2	17
35	DVID_PbPr3	0/3.3	DVID_PbPr3	16
36	DVID_PbPr4	0/3.3	DVID_PbPr4	15
37	DVID_PbPr5	0/3.3	DVID_PbPr5	14
38	DVID_PbPr6	0/3.3	DVID_PbPr6	13
39	DVID_PbPr7	0/3.3	DVID_PbPr7	12
40	GND	0	GND	11
41	DVID_HS	3.1	DVID_HS	10
42	GND	0	GND	9
43	DVID_VS	3.2	DVID_VS	8
44	GND	0	GND	7
45	DVID_DE	2.6	DVID_DE	6
46	GND	0	GND	5
47	DVID_CLK	1.6	DVID_CLK	4
48	GND	0	GND	3
49	SPDIF		SPDIF	2
50	GND	0	GND	1

A MR MAIN BOARD ASSY

FAN MOTOR

CN7202 , CN7204 (AKM1274)		Voltage (V)	CN6951 (AKM1201)	
No.	Name		Name	No.
1	FAN_12V	6.9		
2	FAN_NG	0		
3	GND	0		

B AV BOARD ASSY — **H** LED ASSY

CN8656 (KM200NA7)		Voltage (V)	CN7651 (AKM1293-A-TBB)	
No.	Name		Name	No.
1	V+3V_STB	3.3	V+3V_STB	1
2	LED_G	0	LED_G	2
3	LED_R	3.3	LED_R	3
4	GND	0	GND	4
5	LED_MDM	0	LED_MDM	5
6	LED_FCT	3.3	LED_FCT	6
7	GND	0.0	GND	7

B AV BOARD ASSY — **K** POWER SUPPLY UNIT

CN8501 (KM200NA16)		Voltage (V)	CP51 (KM200NA16)	
No.	Name		Name	No.
1	V+16.5V	17.6	V+16.5V	1
2	GND	0	GND	2
3	V+12V	12	V+12V	3
4	V+12V	12	V+12V	4
5	GND	0	GND	5
6	GND	0	GND	6
7	V+6.5V	6.8	V+6.5V	7
8	V+6.5V	6.8	V+6.5V	8
9	GND	0	GND	9
10	GND	0	GND	10
11	V+12V_STB	14.9	V+12V_STB	11
12	V+3V_STB	3.3	V+3V_STB	12
13	GND	0	GND	13
14	RELAY	2.4	RELAY	14
15	PD_TRIGGER	0	PD_TRIGGER	15
16	AC_DET	2.7	AC_DET	16

B AV BOARD ASSY — **F** SR ASSY

CN8658 (AKM1233)		Voltage (V)	CN9452 (CKS3826)	
No.	Name		Name	No.
1	V+5V_STB	5.0	V+5V_STB	12
2	V+3V_STB	3.3	V+3V_STB	11
3	TXD	3.3	TXD	10
4	RXD	3.3	RXD	9
5	232C_DET	0.0	232C_DET	8
6	SR_EN_B	3.3	SR_EN_B	7
7	GND	0.0	GND	6
8	SR_OUT	3.3	SR_OUT	5
9	SR_IN	3.3	SR_IN	4
10	GND	0.0	GND	3
11	IR	0.0	IR	2
12	GND	0.0	GND	1

A MR MAIN BOARD ASSY — TRAP SW

CN7203 (AKM1213)		Voltage (V)		
No.	Name		Name	No.
1	TRAP_SW	0.7		
2	NC			
3	V+3V_UCOM	3.3		

B AV BOARD ASSY — **I** TUNER BOARD ASSY

CN8509 (KM200NA9)		Voltage (V)	CN6001 (KM200NA9)	
No.	Name		Name	No.
1	V+1.8V_DD	1.8	V+1.8V_DD	1
2	V+1.8V_DD	1.8	V+1.8V_DD	2
3	GND	0	GND	3
4	GND	0	GND	4
5	V+3V_DD	3	V+3V_DD	5
6	V+3V_DD	3	V+3V_DD	6
7	GND	0	GND	7
8	GND	0	GND	8
9	V+6V_EU	6	V+6V_EU	9

B AV BOARD ASSY — **I** TUNER BOARD ASSY

CN8508 (KM200NA8)		Voltage (V)	CN6002 (KM200NA8)	
No.	Name		Name	No.
1	V+6V_ON	6	V+6V_ON	1
2	GND	0	GND	2
3	V+6V	6	V+6V	3
4	V+6V	6	V+6V	4
5	GND	0	GND	5
6	V+12V	12	V+12V	6
7	GND	0	GND	7
8	V+30V_EU	30	V+30V_EU	8

A MR MAIN BOARD ASSY — **E** MDR ASSY

CN7402 (AKM1234)		Voltage (V)	CN9302 (CKS3830)	
No.	Name		Name	No.
16	GND_D	0	GND_D	1
15	AUDIO_L	0	AUDIO_L	2
14	ACT3V	3.3	ACT3V	3
13	AUDIO_R	0	AUDIO_R	4
12	V+3V_UCOM	3.3	V+3V_UCOM	5
11	STB3V	3.3	STB3V	6
10	SP_MUTE	3.3	SP_MUTE	7
9	MTXD	3.3	MTXD	8
8	FIELD	0	FIELD	9
7	MRXD	3.3	MRXD	10
6	REM_B	3.3	REM_B	11
5	P_ST_B	0	P_ST_B	12
4	AC_OFF	0	AC_OFF	13
3	REQ	0	REQ	14
2	KEY_B	3.3	KEY_B	15
1	STB_MT	0	STB_MT	16

B AV BOARD ASSY

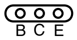
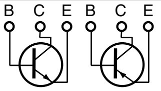
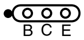
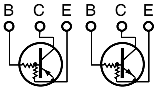
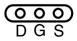
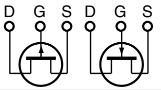
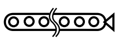
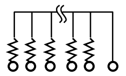
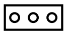
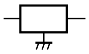
G FRONT ASSY

CN8653 (AKM1201)		Voltage (V)	CN9502 (AKM1201)	
No.	Name		Name	No.
50	V+9V_A	9.0	V+9V_A	1
49	V+5V_A	5.0	V+5V_A	2
48	V+3VCOM	3.3	V+3VCOM	3
47	WE_ROM	0.0	WE_ROM	4
46	PC_V	0.0	PC_V	5
45	GND	0.0	GND	6
44	PC_H	0.0	PC_H	7
43	GND	0.0	GND	8
42	PC_B	4.6	PC_B	9
41	GND	0.0	GND	10
40	PC_G	4.7	PC_G	11
39	GND	0.0	GND	12
38	PC_R	4.7	PC_R	13
37	GND	0.0	GND	14
36	GND	4.7	GND	15
35	PC_RCH	4.4	PC_RCH	16
34	GND	0.0	GND	17
33	PC_LCH	4.4	PC_LCH	18
32	GND	0.0	GND	19
31	V4_R	4.4	V4_R	20
30	GND	0.0	GND	21
29	V4_L	4.4	V4_L	22
28	GND	0.0	GND	23
27	GND	0.0	GND	24
26	V4_V	3.9	V4_V	25
25	GND	0.0	GND	26
24	V4_S2	0.1	V4_S2	27
23	V4_SPLUG	4.9	V4_SPLUG	28
22	GND	0.0	GND	29
21	V4_C	4.4	V4_C	30
20	GND	0.0	GND	31
19	V4_Y	3.9	V4_Y	32
18	GND	0.0	GND	33
17	GND	0.0	GND	34
16	HP_PLUG	0.0	HP_PLUG	35
15	HP_R	2.1	HP_R	36
14	GND	0.0	GND	37
13	HP_L	2.1	HP_L	38
12	GND	0.0	GND	39
11	GND	0.0	GND	40
10	NO_USE	–	NO_USE	41
9	GND	0.0	GND	42
8	GND	0.0	GND	43
7	NO_USE	–	NO_USE	44
6	GND	0.0	GND	45
5	GND	0.0	GND	46
4	NO_USE	–	NO_USE	47
3	GND	0.0	GND	48
2	GND	0.0	GND	49
1	NO_USE	–	NO_USE	50

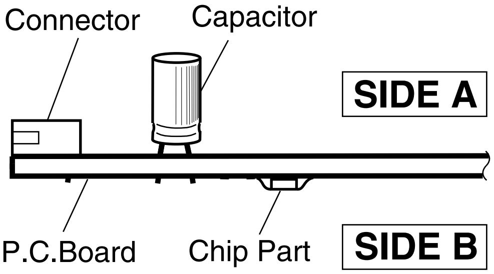
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts fo several destinations. For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

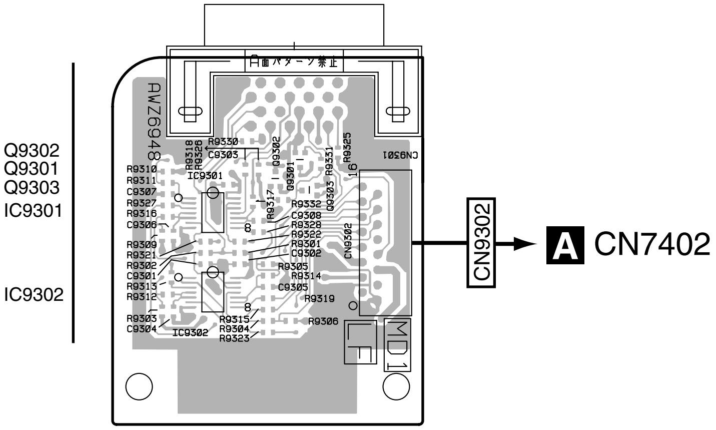

Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

4.1 SW and MDR ASSYS

SIDE A

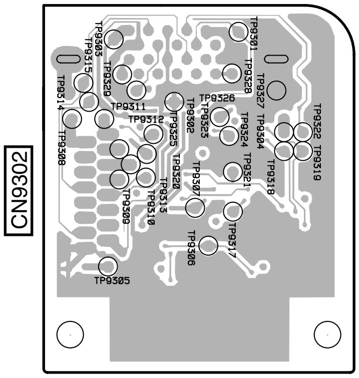
SIDE B

E MDR ASSY


Q9302
Q9301
Q9303
IC9301
IC9302
AWZ6948
CN9301
IC9301
IC9302
CN9302
MD1
LF
CN9302
A CN7402

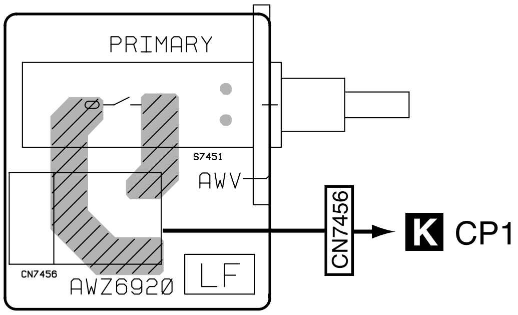
(ANP2088-B)

E MDR ASSY


CN9302
TP9301
TP9305
TP9311
TP9312
TP9326
TP9319
TP9322

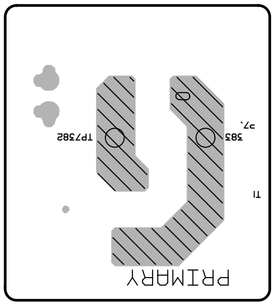
(ANP2088-B)

J SW ASSY


PRIMARY
S7451
AWV
CN7456
AWZ6920
LF
CN7456
K CP1

(ANP2093-A)

J SW ASSY


TP7502
PRIMARY

(ANP2093-A)

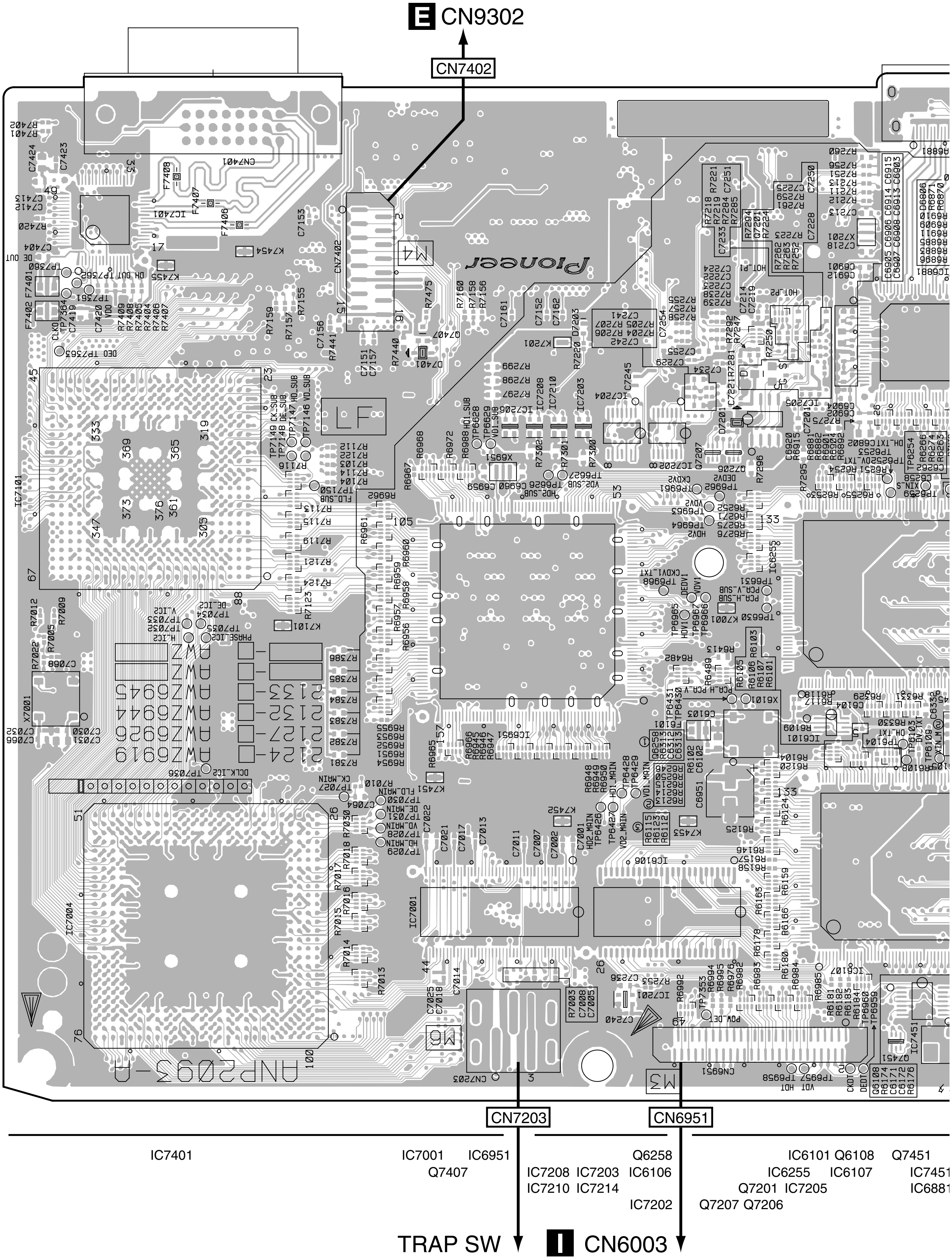
E J

E J

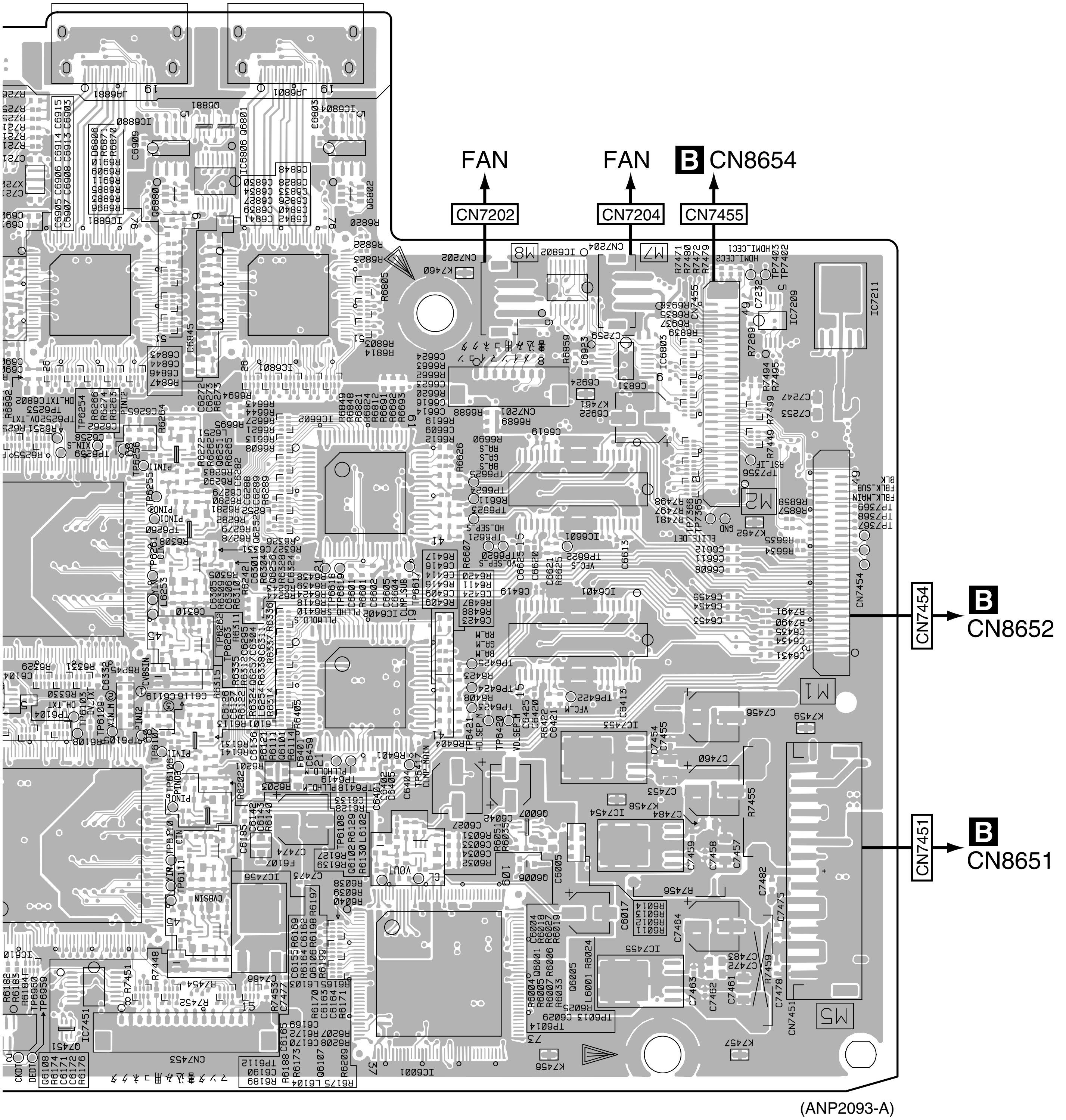
4.2 MR MAIN BOARD ASSY

SIDE A

A MR MAIN BOARD ASSY


E CN9302
CN7402
CN7401
IC7401
Pioneer
IC7101
IC6951
IC7004
IC7001
IC7201
CN6951
CN7203
ANP2093-A
M4
M6
M3
LF
X7001
CN7203
CN6951
IC7401
IC7001 IC6951
Q7407
IC7208 IC7203
IC7210 IC7214
Q6258
IC6106
IC7202
IC6101 Q6108
IC6255 IC6107
Q7201 IC7205
Q7207 Q7206
Q7451
IC7451
IC6881
TRAP SW
I CN6003

SIDE A


FAN
FAN
B CN8654
CN7202
CN7204
CN7455
CN7454
B CN8652
CN7451
B CN8651
IC6001
IC7451
IC7453
IC7454
IC7455
IC7456
IC7458
IC6401
IC6601
IC6803
IC7209
IC7211
IC6880
IC6881
IC6801
M1
M2
M5
M7
M8

(ANP2093-A)

Q6108 Q7451 Q6880 Q6251 IC7458 Q6106 IC6001 Q6001 Q6005 IC7455 IC7209 IC7211
C6107 IC7451 IC6880 Q6252 Q6101 Q6107 Q6006 IC6601 IC7454 IC6803
IC6881 Q6881 Q6257 IC6602 Q6102 Q6007 IC6401 IC7453
IC6801 Q6256 Q6802 IC6402 IC6802
Q6801 Q6806 IC6804

A

SIDE B

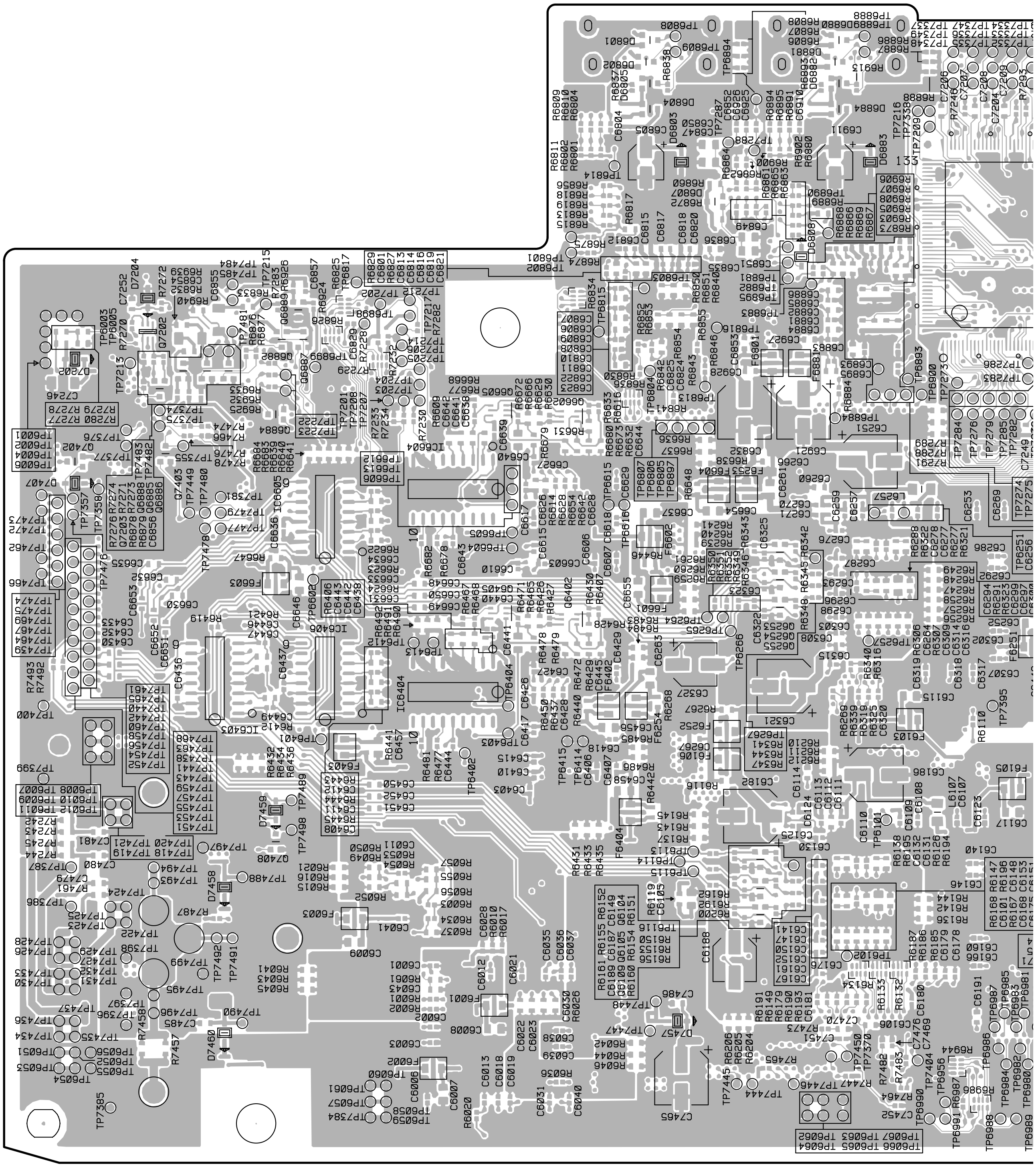
A

A MR MAIN BOARD ASSY

B

C

D



E

Q7402 Q6886 Q7408 IC6406 IC6404 Q6405 Q6402 Q6109 Q6255
Q7203 Q7202 IC6403 Q6884 Q6887 IC6604 Q6605 Q6602 Q6105 Q6254
Q7403 Q6889 IC6605 Q6104 Q6253
Q6882

F

A

SIDE B

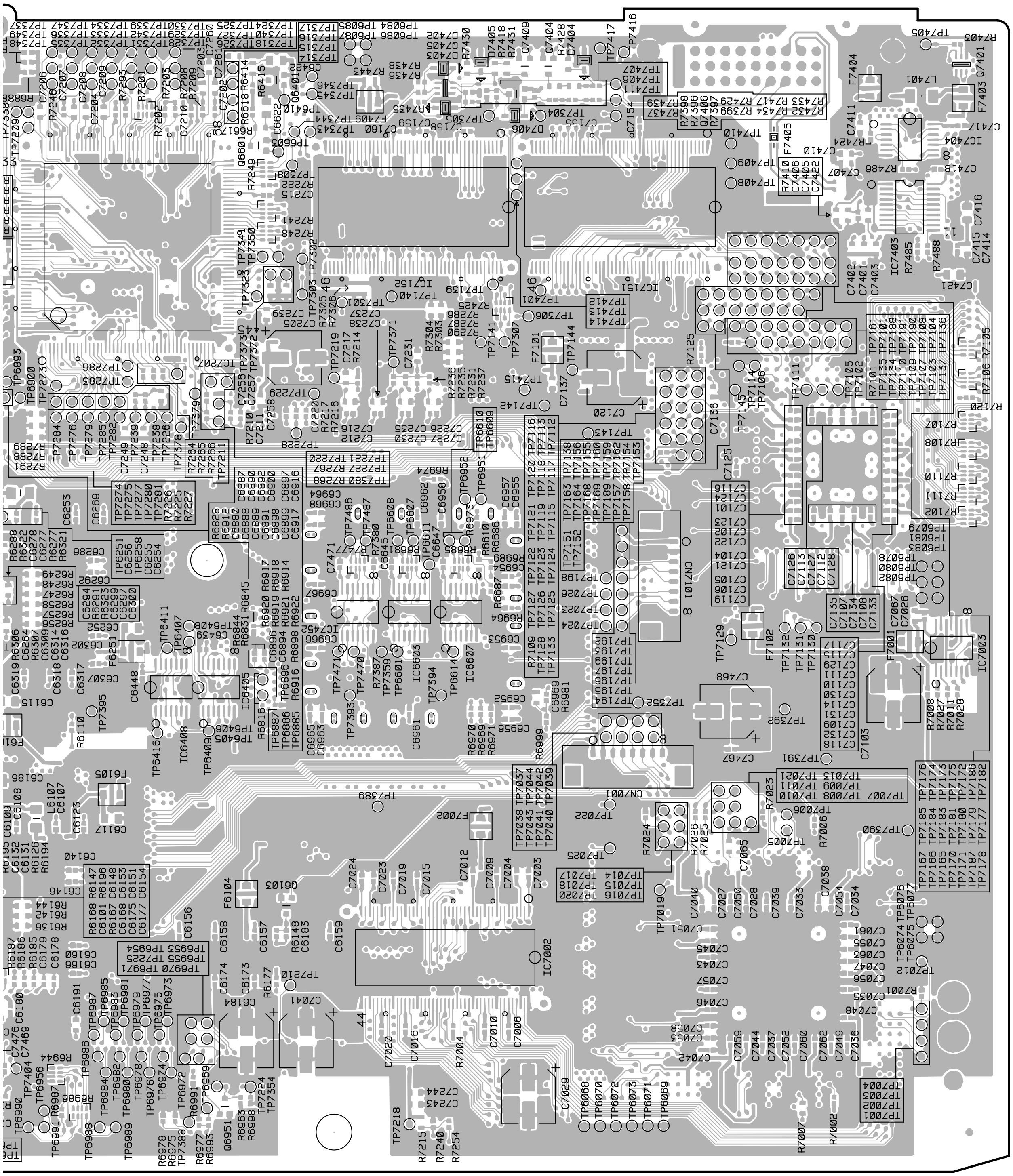
A

B

C

D

E



(ANP2093-A)

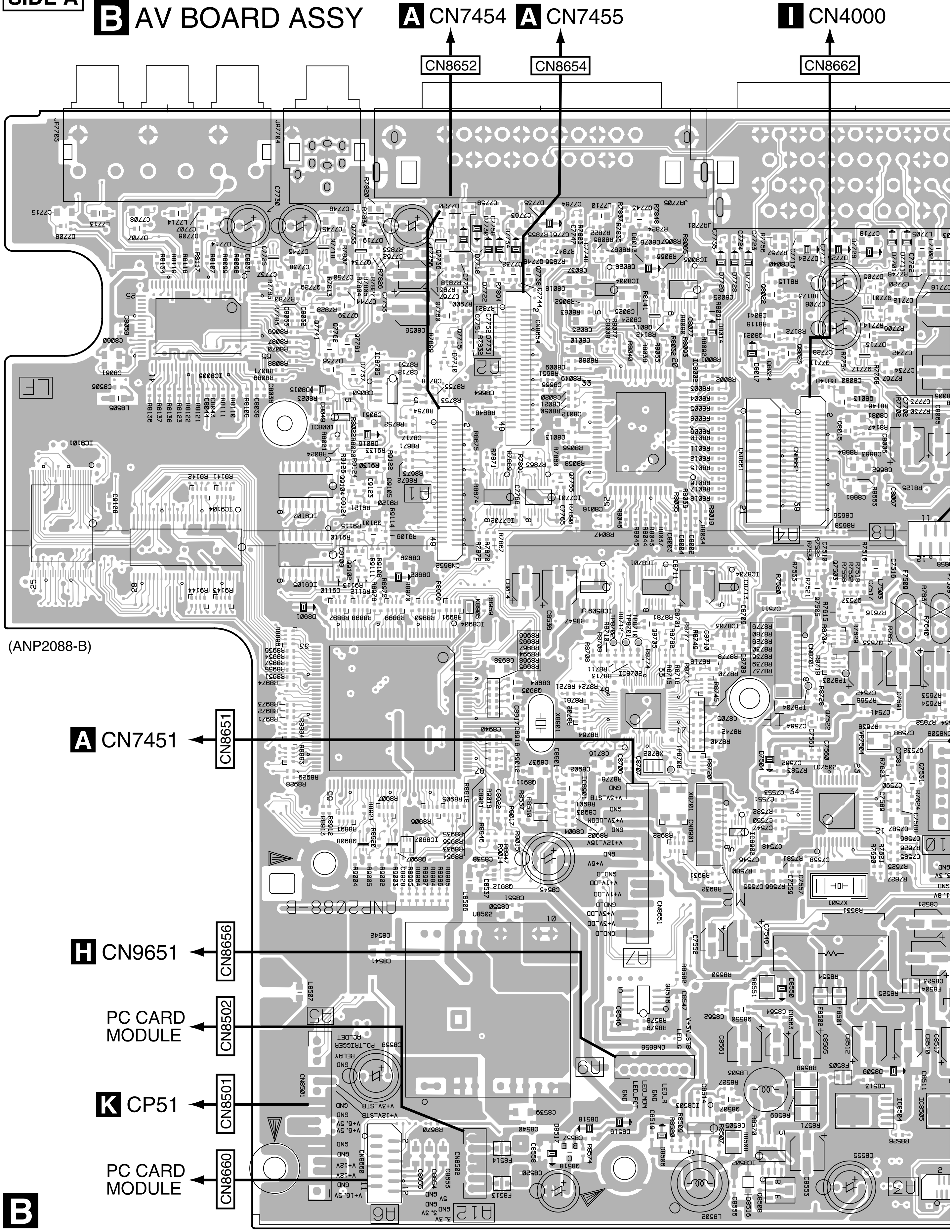
IC6408 Q6103 IC6603 IC6607 IC7002 IC7151 Q7406 IC7403 IC7003
IC6405 IC7452 IC7152 IC7404
IC7207 Q6601 Q6401 Q7405 Q7409 Q7404 Q7401

F

A

4.3 AV BOARD and SR ASSY

SIDE A

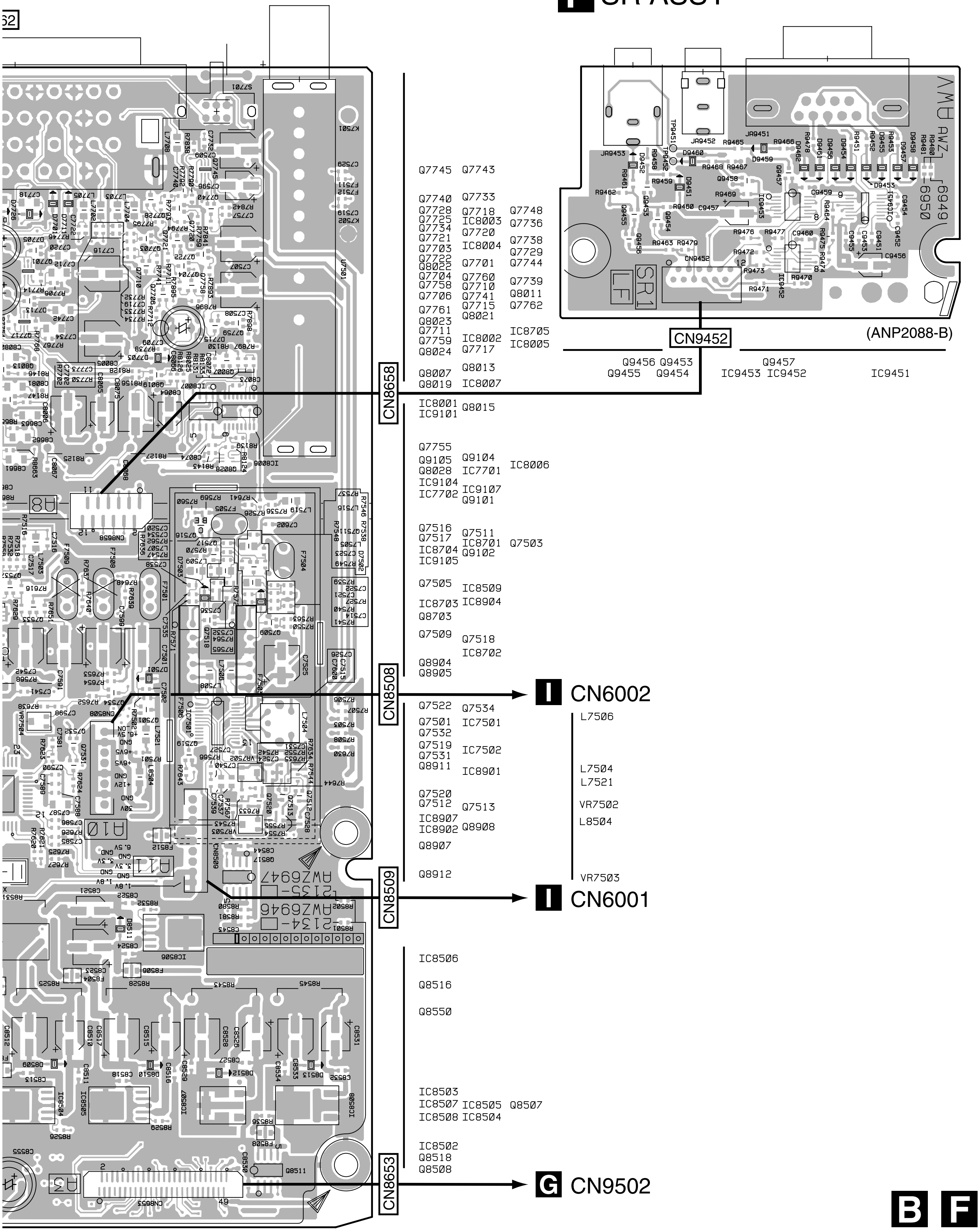


B AV BOARD ASSY
A CN7454
A CN7455
I CN4000
CN8652
CN8654
CN8662
(ANP2088-B)
A CN7451
CN8651
H CN9651
CN8656
PC CARD MODULE
CN8502
K CP51
CN8501
PC CARD MODULE
CN8660
B
ANP2088-B

SIDE A

4000

F SR ASSY



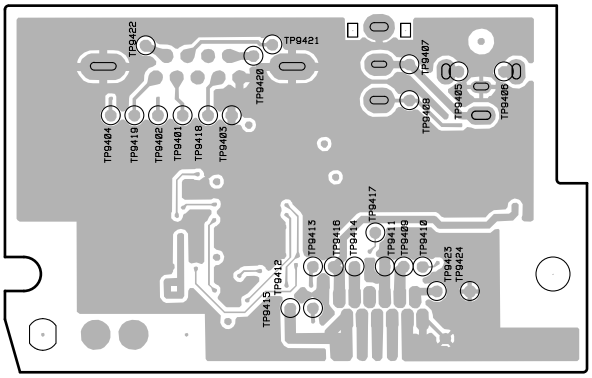
52
Q7745 Q7743
Q7740 Q7733
Q7728 Q7718 Q7748
Q7725 IC8003 Q7736
Q7734
Q7721 Q7720 Q7738
Q7703 IC8004 Q7729
Q7722
Q8022 Q7701 Q7744
Q7704 Q7760 Q7739
Q7758 Q7710
Q7706 Q7741 Q8011
Q7761 Q7715 Q7762
Q8023 Q8021
Q7711 IC8705
Q7759 IC8002 IC8005
Q8024 Q7717
Q8007 Q8013
Q8019 IC8007
IC8001 Q8015
IC9101
Q7755
Q9105 Q9104 IC8006
Q8028 IC7701
IC9104 IC9107
IC7702 Q9101
Q7516 Q7511
Q7517 IC8701 Q7503
IC8704 Q9102
IC9105
Q7505 IC8509
IC8703 IC8904
Q8703
Q7509 Q7518
IC8702
Q8904
Q8905
Q7522 Q7534
Q7501 IC7501
Q7532
Q7519 IC7502
Q7531
Q8911 IC8901
Q7520
Q7512 Q7513
IC8907
IC8902 Q8908
Q8907
Q8912
IC8506
Q8516
Q8550
IC8503
IC8507 IC8505 Q8507
IC8508 IC8504
IC8502
Q8518
Q8508
CN8658
CN8508
CN8509
CN8653
CN9452
(ANP2088-B)
Q9456 Q9453
Q9455 Q9454
Q9457
IC9453 IC9452
IC9451
I CN6002
L7506
L7504
L7521
VR7502
L8504
VR7503
I CN6001
G CN9502
SR1
LF

B **F**

SIDE B

F SR ASSY

B AV BOARD ASSY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TP9404
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TP9402
TP9401
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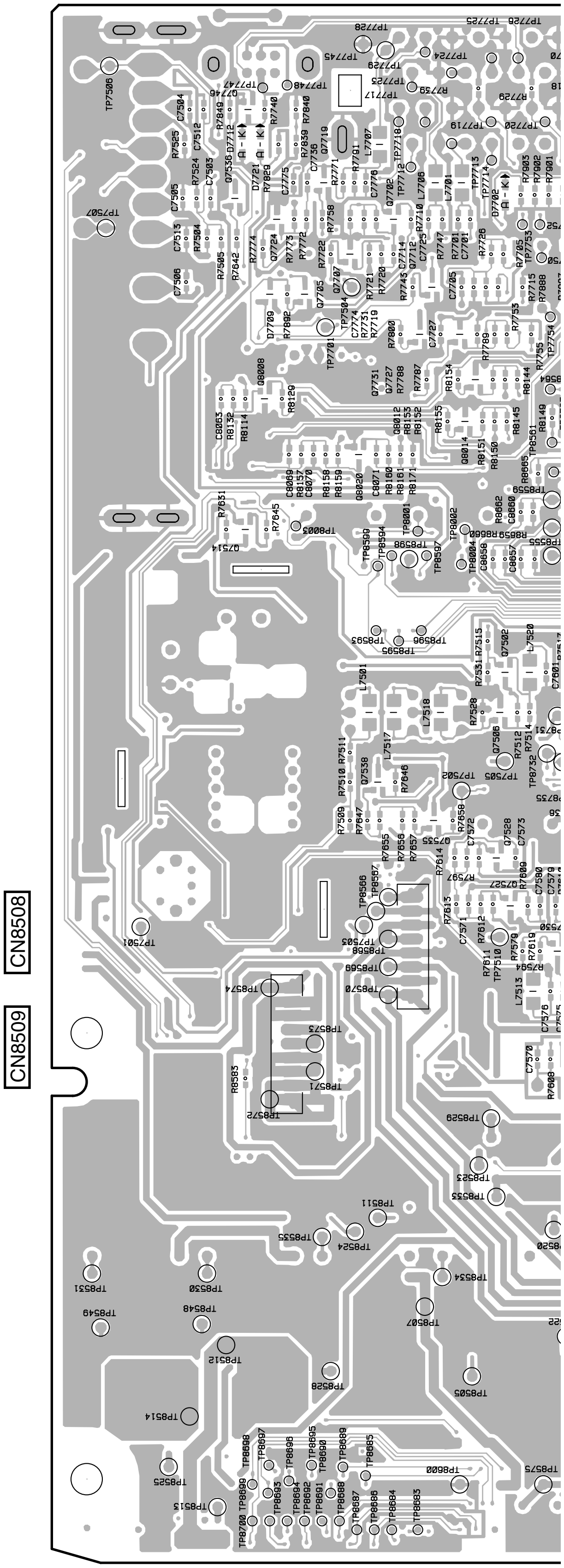
TP9403
TP9417
TP9413
TP9416
TP9414
TP9411
TP9409
TP9410
TP9423
TP9424
TP9412
TP9415

(ANP2088-B)

Q7746
Q7737
Q7719
Q7747
Q7742
Q7716 Q7702
Q7714
Q7750 Q7749
Q7730 Q7723
Q8026 Q7713 Q7724
Q7712 Q7751
Q8006 Q7707
Q7705 Q7726 Q7754
Q7752 Q7735
Q7753 Q8025 Q8005
Q8027
Q7727 Q8008
Q7731
Q8012
Q8014
Q9106
Q8020
Q7757
Q7514 Q9107
Q9108
Q7502
Q7504 Q9103
Q8909
Q8702
Q7506
Q8913
Q8914 Q7538
Q7528
Q7535 Q8906
Q7524
Q7527
Q7530
Q8910 Q7526
Q8514
Q8509
Q8515
Q8503


CN8508
CN8509
TP7506
TP7507
TP7728
TP7745
TP7729
TP7724
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TP7726
TP7717
TP7719
TP7720
TP7701
TP8003
TP8001
TP8002
TP8595
TP8596
TP8593
TP7501
TP7502
TP7503
TP7505
TP8574
TP8573
TP8571
TP8572
TP8570
TP8569
TP8568
TP8567
TP8566
TP8529
TP8523
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TP8511
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TP8524
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TP8534
TP8549
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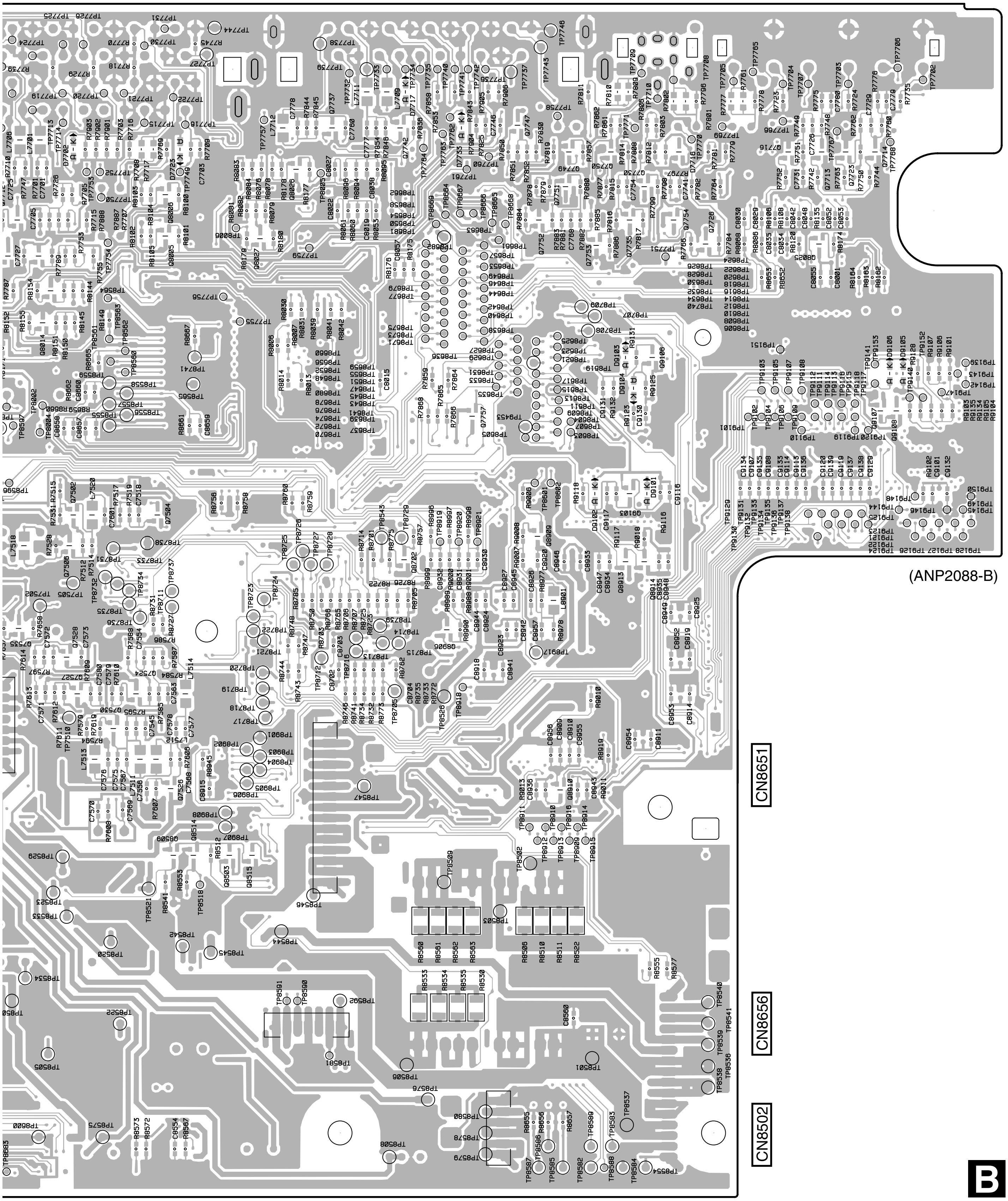
TP8507
TP8512
TP8528
TP8505
TP8514
TP8525
TP8515
TP8600
TP8575
Q7514
Q8008
Q8012
Q8014
Q8020
Q7502
Q7506
Q7538
Q7528
Q7527
L7501
L7517
L7518
L7520
C7504
C7505
C7506
C7513

SIDE B


CN8651
CN8656
CN8502

(ANP2088-B)

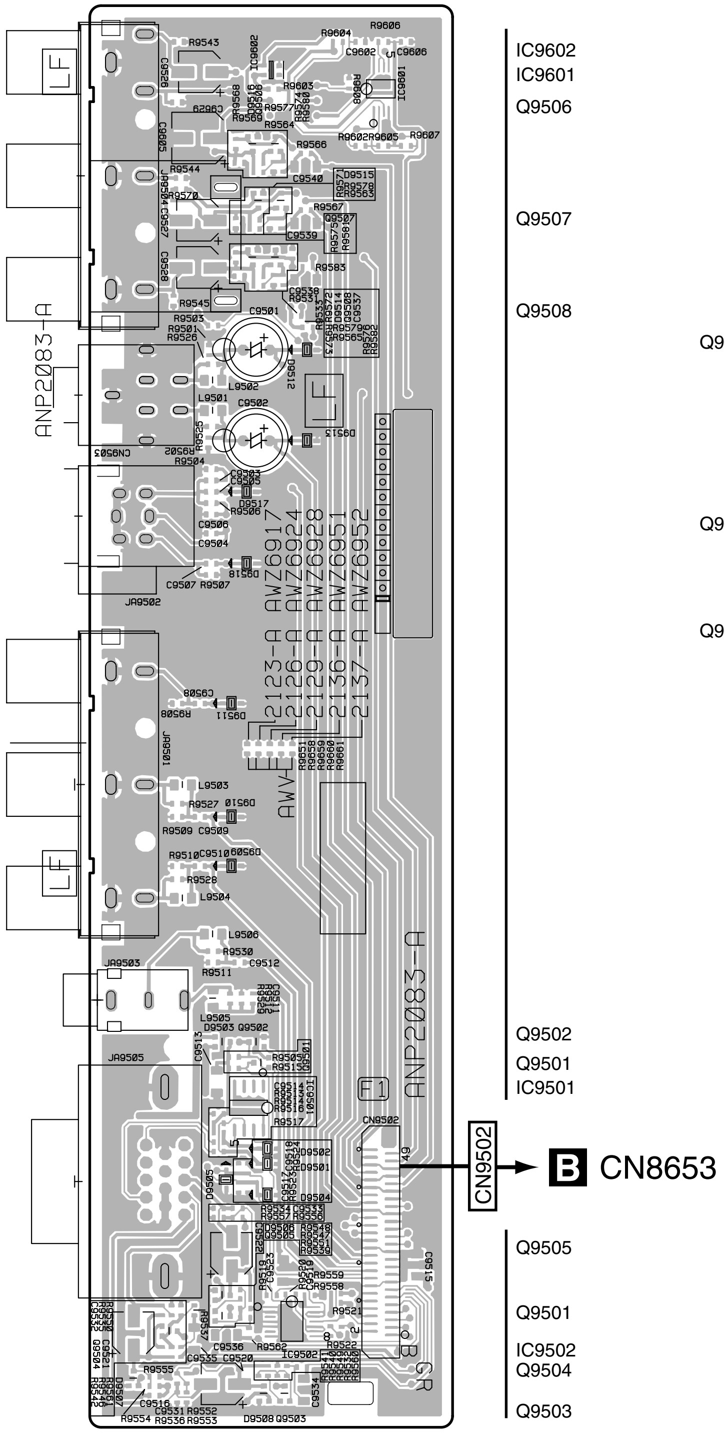
B

4.4 FRONT and LED ASSY

SIDE A

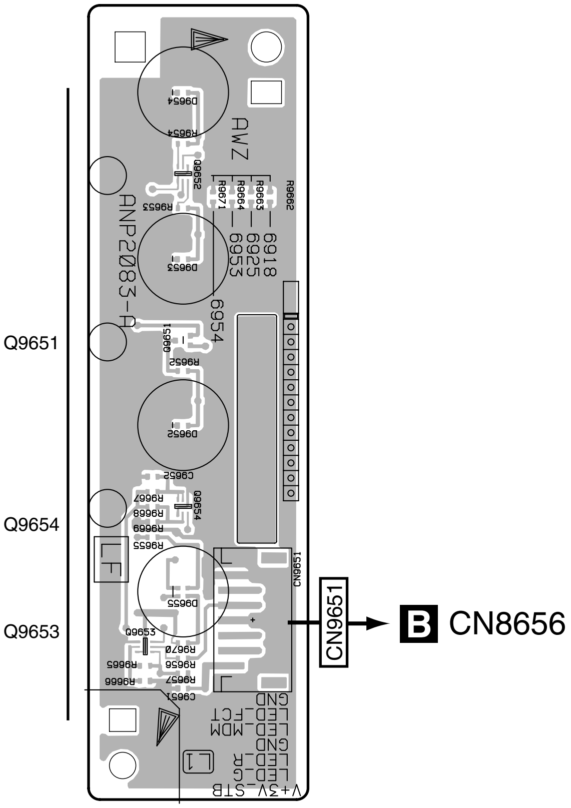
SIDE A

G FRONT ASSY


IC9602
IC9601
Q9506
Q9507
Q9508
Q9502
Q9501
IC9501
CN9502
B CN8653
Q9505
Q9501
IC9502
Q9504
Q9503
ANP2083-A
AWZ6917
AWZ6924
AWZ6928
AWZ6951
AWZ6952
2123-A
2126-A
2129-A
2136-A
2137-A
AWV
LF
F1
JA9501
JA9502
JA9503
JA9505
CN9503

(ANP2083-A)

H LED ASSY

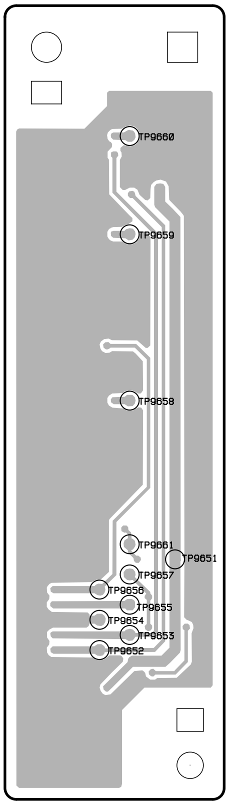

Q9651
Q9654
Q9653
CN9651
B CN8656
AWZ
ANP2083-A
6918
6925
6953
6954
D9654
D9653
D9652
D9655
LF
GND
LED_FCT
LED_MDM
GND
LED_R
LED_G
V+3V_STB

(ANP2083-A)

G **H**

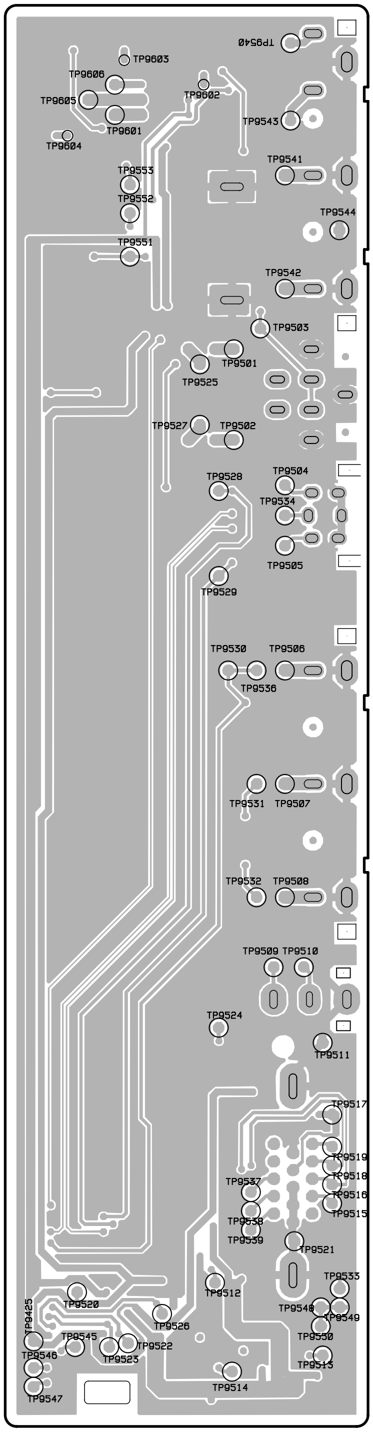
G **H**

H LED ASSY


TP9660
TP9659
TP9658
TP9661
TP9651
TP9657
TP9656
TP9655
TP9654
TP9653
TP9652

(ANP2083-A)

G FRONT ASSY


TP9540
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TP9606
TP9602
TP9605
TP9601
TP9543
TP9604
TP9541
TP9553
TP9552
TP9544
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TP9521
TP9533
TP9512
TP9520
TP9425
TP9548
TP9549
TP9526
TP9545
TP9522
TP9550
TP9546
TP9523
TP9513
TP9514
TP9547

(ANP2083-A)

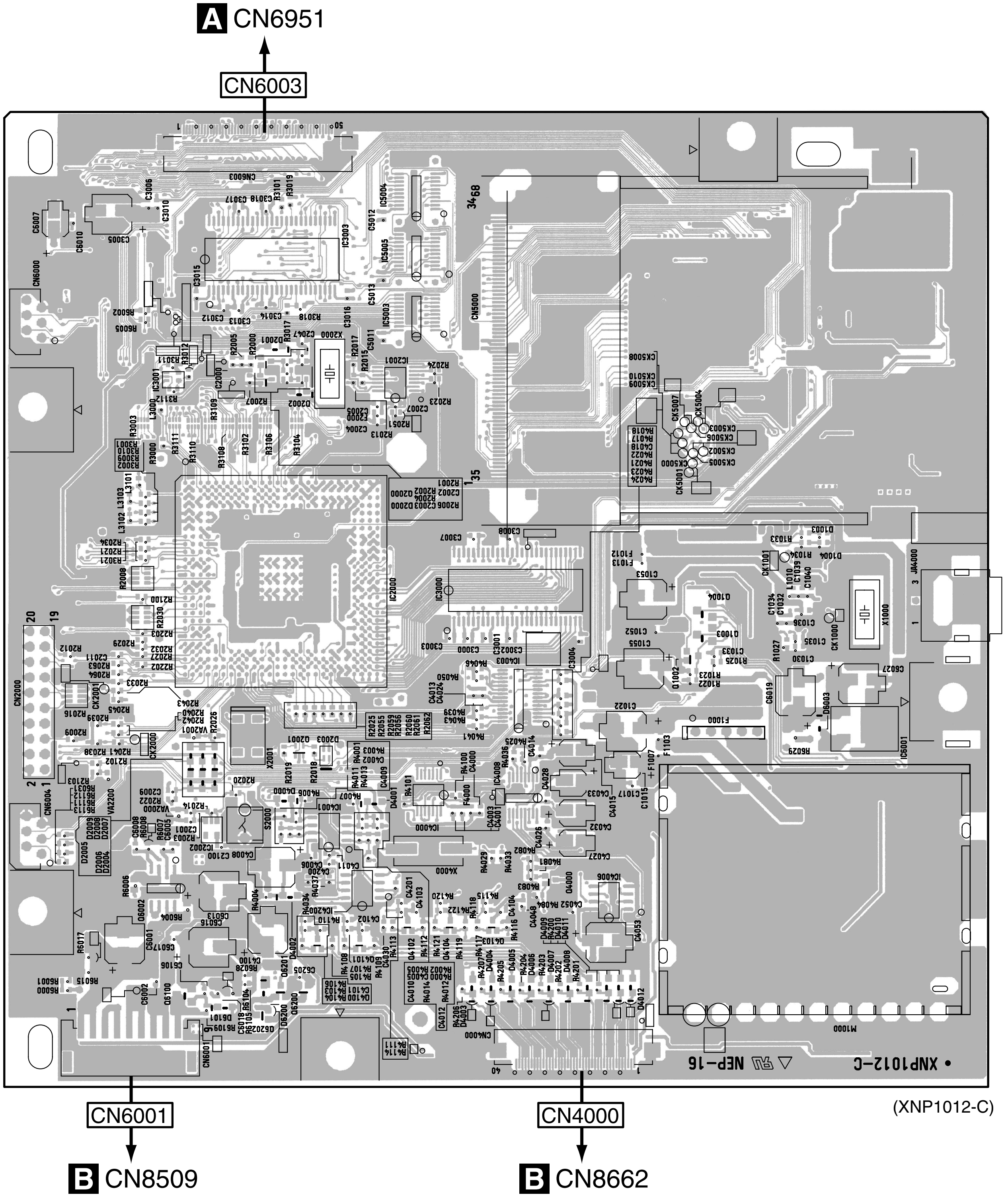
G **H**

G **H**

4.5 TUNER BOARD ASSY

SIDE A **SIDE A**

I TUNER BOARD ASSY

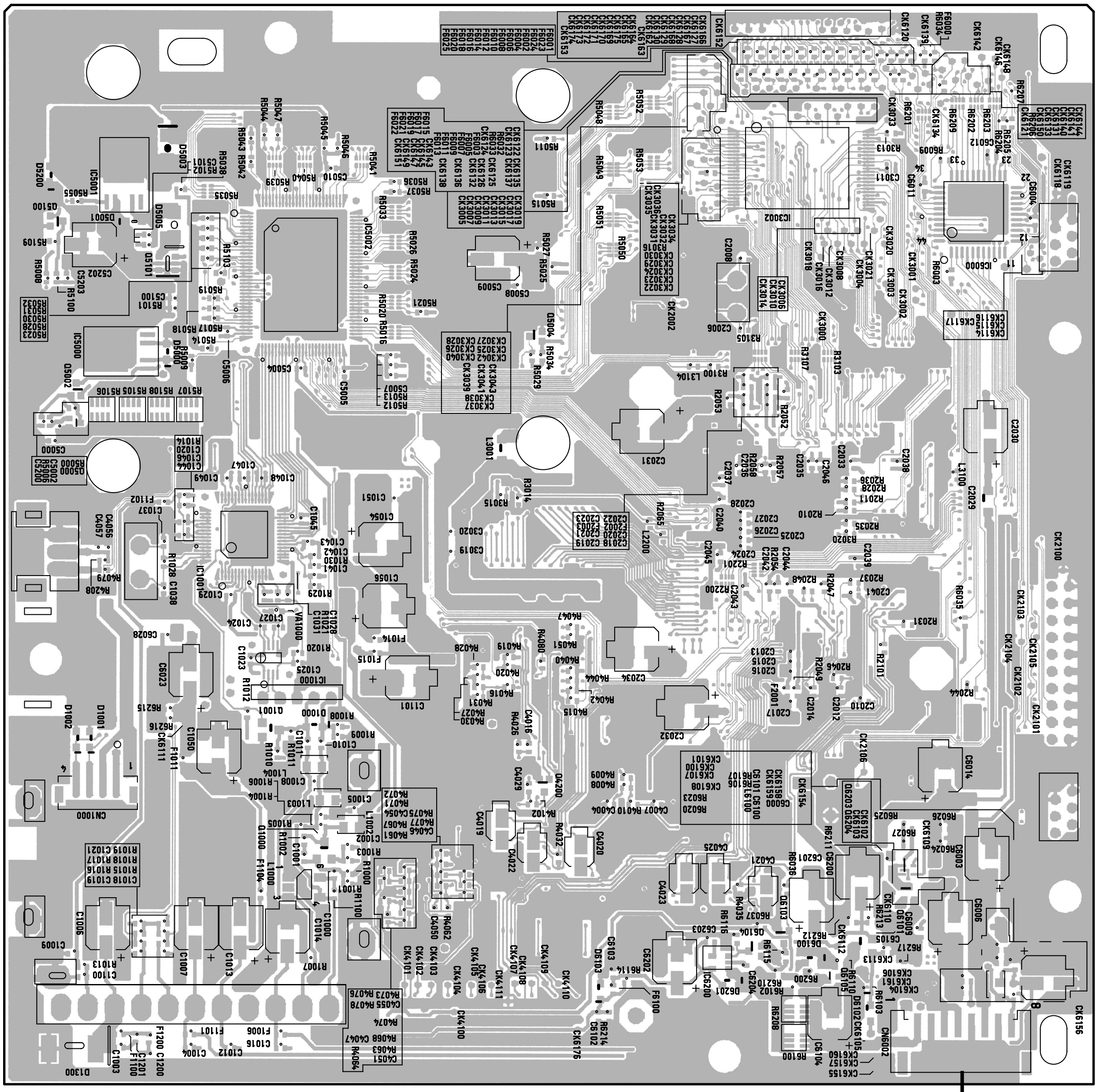

A CN6951
CN6003
CN6001
B CN8509
CN4000
B CN8662
(XNP1012-C)
XNP1012-C
NEP-16
CN2000
CN6000
CN6004
CN5000
IC2000
IC3000
IC3003
IC5003
IC5004
IC5005
X1000
X2000
JA4000
M1000

Q6002 IC2002 Q6202 Q6200 IC4200 Q4101 Q4102 IC4000 Q4103 IC4006 Q1002 Q1003 IC6001
IC3001 Q2001 Q6201 IC3003 IC5003 IC3000 IC4003 Q4000 Q1004
Q6100 Q2001 Q4100 IC2001 Q2000 IC4008
IC4001 IC2000 IC5004 IC5005

I I

SIDE B **SIDE B**

I TUNER BOARD ASSY


CN1000
IC3002
IC5000
IC5001
IC1000
CN6002

(XNP1012-C)

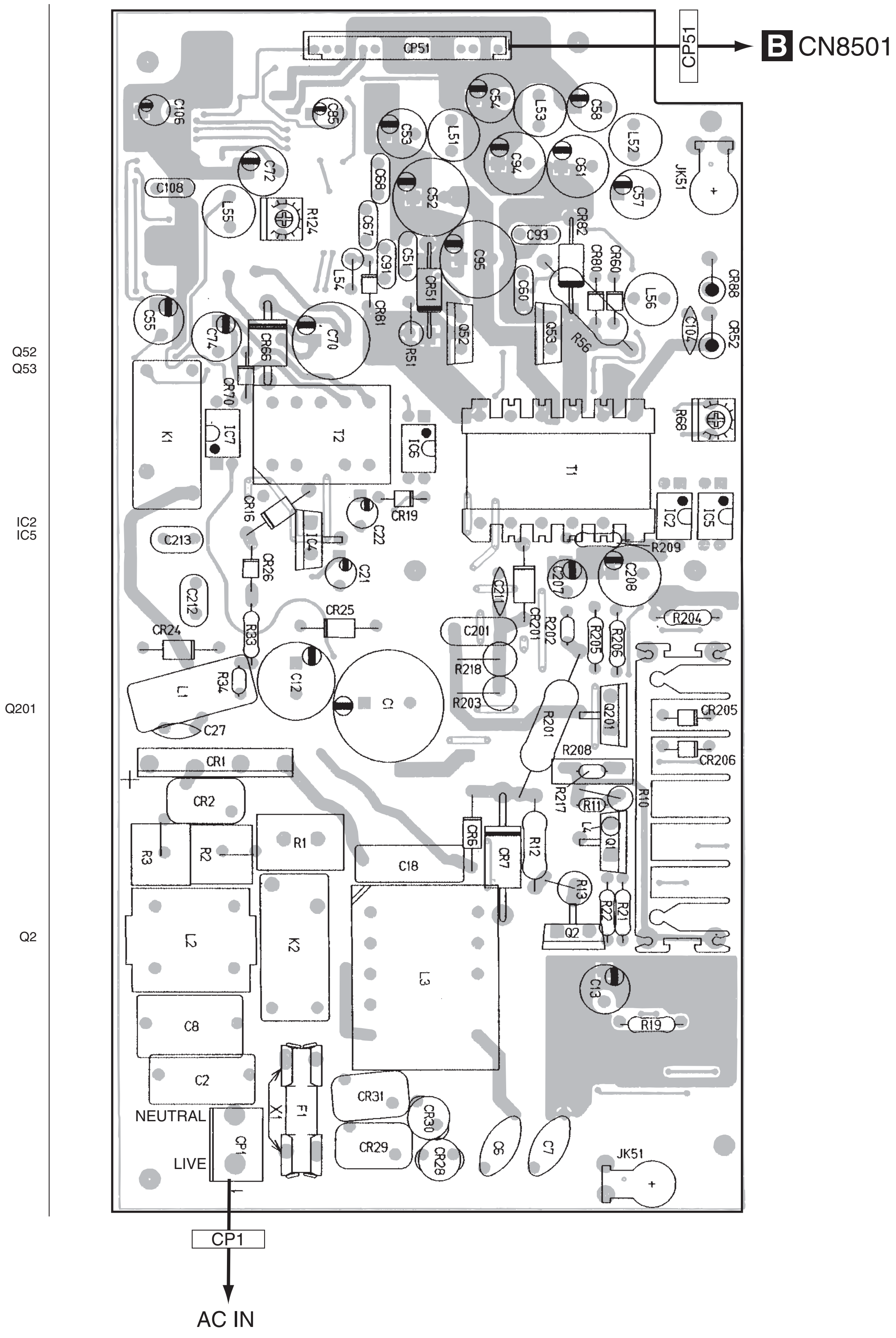
CN6002

B CN8508

Q5100 IC5001 Q5101 IC1001 Q1001 IC1000 IC5002 Q4200 IC6200 Q6104 Q6103 Q6203 Q6204 IC6000
Q5000 IC5000 Q1000 Q5004 IC3002 Q6105 Q6101
IC5002

4.6 POWER SUPPLY UNIT

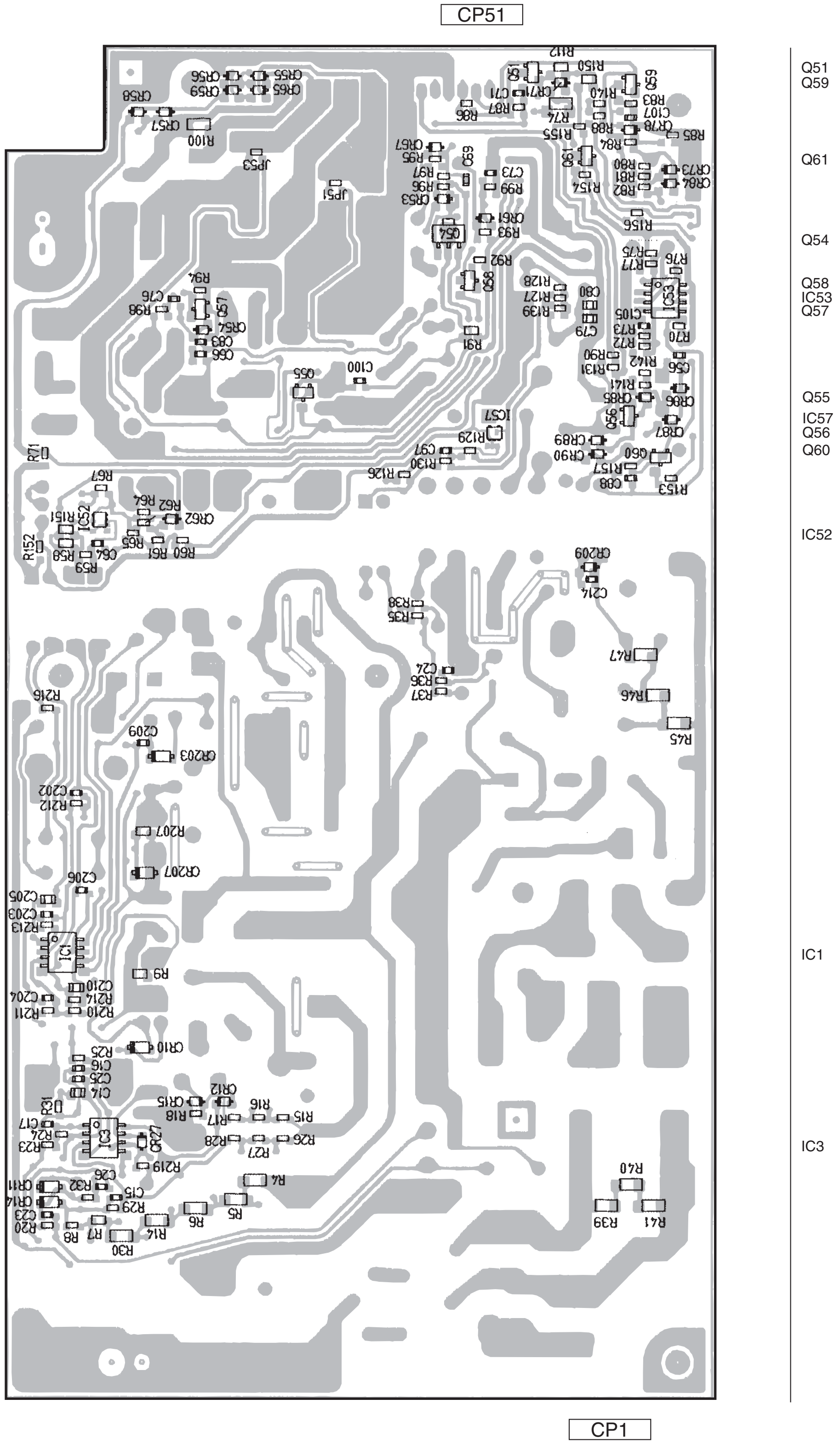
SIDE A **K** POWER SUPPLY UNIT **SIDE A**


A
B
C
D
E
F
Q52
Q53
IC2
IC5
Q201
Q2
CP51
B CN8501
C106
C85
C53
L51
C54
L53
C58
L52
C72
C68
C52
C94
C61
C57
JK51
C108
L55
R124
C67
CR82
C93
C91
C51
C95
CR80
CR60
CR88
L54
CR81
CR51
C60
L56
C55
C74
CR66
C70
R51
Q52
Q53
R56
C104
CR52
CR70
K1
IC7
T2
IC6
R68
T1
CR16
CR19
C22
IC4
IC2
IC5
C213
R209
CR26
C21
C211
C207
C208
C212
CR25
CR201
R202
R205
R206
R204
CR24
R33
C201
R218
R34
C12
C1
R203
L1
R201
Q201
CR205
C27
CR206
R208
CR1
R217
R11
R10
CR2
L4
R3
R2
R1
CR6
R12
CR7
C18
Q1
R13
R22
R21
Q2
L2
K2
L3
C13
R19
C8
C2
X1
F1
CR31
CR30
NEUTRAL
CP1
CR29
CR28
C6
C7
JK51
LIVE
CP1
AC IN

SIDE B

K POWER SUPPLY UNIT

SIDE B


CP51
Q51
Q59
Q61
Q54
Q58
IC53
Q57
Q55
IC57
Q56
Q60
IC52
IC1
IC3
CP1

5. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^{1} → 561 .... RD1/4PU561J
47k Ω → 47 x 10^{3} → 473 .... RD1/4PU473J
0.5 Ω → R50 .... RN2HR50K
1 Ω → 1R0 .... RS1P1R0K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10^{1} → 5621 .... RN1/4PC5621F

• LIST OF ASSEMBLIES

Mark	Symbol and Description	PDP-R05E/ WYVI	PDP-R05E/ WYVIXK	PRO-R05XE/ WYVIXK	PDP-R05FE/ WYVI	PDP-R05FE/ WYVIXK
NSP	1..MR AV BOARD ASSY	AWV2134	AWV2134	AWV2168	AWV2135	AWV2135
	2..AV BOARD ASSY	AWZ6946	AWZ6946	AWZ6986	AWZ6947	AWZ6947
	2..MDR ASSY	AWZ6948	AWZ6948	AWZ6948	AWZ6948	AWZ6948
	2..SR ASSY	AWZ6949	AWZ6949	AWZ6949	AWZ6950	AWZ6950
NSP	1..MR FUKUGOU BOARD ASSY	AWV2136	AWV2136	AWV2136	AWV2137	AWV2137
	2..FRONT ASSY	AWZ6951	AWZ6951	AWZ6951	AWZ6952	AWZ6952
	2..LED ASSY	AWZ6953	AWZ6953	AWZ6953	AWZ6954	AWZ6954
NSP	1..MR MAIN BOARD ASSY	AWV2132	AWV2132	AWV2167	AWV2133	AWV2133
	2..MAIN BOARD ASSY	AWZ6944	AWZ6944	AWZ6990	AWZ6945	AWZ6945
	2..SW ASSY	AWZ6920	AWZ6920	AWZ6920	AWZ6920	AWZ6920
	1..TUNER BOARD ASSY	Not used	Not used	AWE1301	Not used	Not used
	1..PC CARD MODULE	AXY1073	AXY1073	AXY1073	Not used	Not used
⚠	1..POWER SUPPLY UNIT	AXY1091	AXY1091	AXY1091	AXY1091	AXY1091

• PCB PARTS LIST

A MR MAIN BOARD ASSY (AWZ6944/AWZ6990)

[GCR BLOCK]

RESISTORS

Mark	No.	Description	Part No.
	R6011-R6016,R6021,R6041,R6043		RS1/16S0R0J
	R6045		RS1/16S0R0J

[MICHEL MAIN BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC6107		PD0278A
	IC6101		TC7W126FU
	Q6108		2SA1586
	Q6101,Q6102		HN1A01FU
	Q6106,Q6107		HN1B04FU

COILS AND FILTERS

Mark	No.	Description	Part No.
	F6101,F6103,F6105-F6107	EMI FILTER	CCG1162
	L6107		LCTAW220J2520
	L6101-L6104		LCYC6R8K2125

CAPACITORS

Mark	No.	Description	Part No.
	C6102 (10/6.3)		ACG7046
	C6126,C6142,C6163,C6164		CCSRCH330J50
	C6171,C6172		CCSRCH330J50
	C6127,C6143		CCSRCH680J50
	C6182,C6186		CEHVKW101M6R3
	C6188		CEHVKW470M6R3
	C6151		CKSQYB225K10
	C6112,C6114		CKSRYB102K50
	C6119,C6136,C6153,C6154		CKSRYB104K16
	C6168,C6169,C6177,C6185		CKSRYB104K16
	C6101,C6155,C6175,C6190		CKSRYB105K6R3
	C6103,C6104,C6107-C6111,C6113		CKSSYF104Z16
	C6116,C6123-C6125,C6130-C6133		CKSSYF104Z16
	C6140,C6141,C6146-C6148,C6150		CKSSYF104Z16
	C6152,C6160-C6162,C6165-C6167		CKSSYF104Z16
	C6170,C6176,C6178-C6181		CKSSYF104Z16

RESISTORS

Mark	No.	Description	Part No.
	R6101,R6104-R6106,R6120		RAB4CQ100J
	R6124,R6125		RAB4CQ100J

Mark	No.	Description	Part No.
	R6136,R6137,R6142-R6145		RS1/16S0R0J
	R6194-R6196		RS1/16S1000F
	R6115,R6131		RS1/16S100J
	R6197,R6207		RS1/16S103J
	R6147		RS1/16S1301F
	R6198,R6208		RS1/16S183J
	R6113,R6129		RS1/16S221J
	R6126,R6138		RS1/16S2701F
	R6112,R6123,R6128,R6141,R6165		RS1/16S271J
	R6175		RS1/16S271J
	R6170,R6171,R6174,R6176		RS1/16S331J
	R6169,R6172,R6189		RS1/16S471J
	R6122,R6140		RS1/16S473J
	R6167,R6168		RS1/16S8201F
	Other Resistors		RS1/16SS###J

OTHERS

	X6101	CRYSTAL OSCILLATOR (27MHz)	ASS1175

SEMICONDUCTORS

	Q6104,Q6105,Q6109,Q6253-Q6255		2SA1586

CAPACITORS

	C6266,C6267		CCSRCH470J50
	C6149,C6187,C6189,C6322,C6323		CKSSYF104Z16
	C6325		CKSSYF104Z16

RESISTORS

	R6132-R6134		RAB4CQ103J
	Other Resistors		RS1/16SS###J

[MICHEL SUB BLOCK]

SEMICONDUCTORS

	IC6255		PD0278A
	Q6258		2SA1586
	Q6251,Q6252		HN1A01FU
	Q6256,Q6257		HN1B04FU

COILS AND FILTERS

	F6251-F6254	EMI FILTER	CCG1162
	L6257		LCTAW220J2520
	L6251-L6254		LCYC6R8K2125

CAPACITORS

	C6272,C6288,C6305,C6306		CCSRCH330J50
	C6312,C6313		CCSRCH330J50
	C6273,C6289		CCSRCH680J50
	C6251,C6321		CEHVKW101M6R3
	C6327		CEHVKW470M6R3
	C6297		CKSQYB225K10
	C6258,C6260		CKSRYB102K50
	C6265,C6282,C6299,C6300		CKSRYB104K16
	C6309,C6310,C6316,C6324		CKSRYB104K16
	C6264,C6295,C6301,C6314		CKSRYB105K6R3
	C6253-C6257,C6259,C6262		CKSSYF104Z16
	C6269-C6271,C6276-C6279		CKSSYF104Z16
	C6286,C6287,C6292-C6294,C6296		CKSSYF104Z16
	C6298,C6302-C6304,C6307,C6308		CKSSYF104Z16
	C6311,C6315,C6317-C6320,C6331		CKSSYF104Z16

RESISTORS

	R6251-R6254,R6271,R6275,R6276		RAB4CQ100J

Mark	No.	Description	Part No.
	R6329-R6331		RAB4CQ103J
	R6256-R6261		RS1/16S0R0J
	R6321-R6323		RS1/16S1000F
	R6266,R6283		RS1/16S100J
	R6326,R6336		RS1/16S103J
	R6291		RS1/16S1301F
	R6327,R6337		RS1/16S183J
	R6264,R6281		RS1/16S221J
	R6277,R6288		RS1/16S2701F
	R6263,R6274,R6280,R6290,R6305		RS1/16S271J
	R6314		RS1/16S271J
	R6309,R6310,R6313,R6315		RS1/16S331J
	R6308,R6311,R6335		RS1/16S471J
	R6273,R6289		RS1/16S473J
	R6306,R6307		RS1/16S8201F
	Other Resistors		RS1/16SS###J

[AD MAIN BLOCK]

SEMICONDUCTORS

	IC6402		AD80058
	IC6404		BA7078AF
	IC6401		SM5301BS
	IC6405,IC6408		TC74VHC126FT
	Q6405		HN1B04FU
	Q6401		RN1303

COILS AND FILTERS

	F6401-F6404	EMI FILTER	CCG1162

CAPACITORS

	C6422,C6441 (10/6.3)		ACG7046
	C6445		CCSRCH151J50
	C6438		CKSRYB103K50
	C6404,C6424		CKSRYB104K16
	C6408,C6411,C6412,C6421,C6431		CKSRYB105K6R3
	C6434,C6435		CKSRYB105K6R3
	C6409,C6414,C6423		CKSRYB473K16
	C6443		CKSRYB474K10
	C6442		CKSRYB562K50
	C6402		CKSRYB822K50
	C6401		CKSRYB823K16
	C6403,C6405-C6407,C6410,C6413		CKSSYF104Z16
	C6415-C6420,C6425-C6429		CKSSYF104Z16
	C6439,C6440,C6444,C6448		CKSSYF104Z16

RESISTORS

	R6482,R6489		RAB4CQ101J
	R6405,R6410,R6418,R6424		RAB4CQ330J
	R6438,R6439		RAB4CQ330J
	R6420,R6431-R6436		RS1/16S0R0J
	R6404,R6408,R6409,R6416,R6417		RS1/16S1000F
	R6423		RS1/16S1000F
	R6406		RS1/16S104J
	R6422		RS1/16S1101F
	R6478		RS1/16S153J
	R6472		RS1/16S221J
	R6479		RS1/16S222J
	R6414		RS1/16S224J
	R6401		RS1/16S2701F
	R6413		RS1/16S472J
	R6465		RS1/16S682J

Mark	No.	Description	Part No.
	Other Resistors		RS1/16SS###J

SEMICONDUCTORS

	IC6403,IC6406,IC6605		MM1389XFBE

CAPACITORS

	C6430,C6432,C6433,C6446,C6447		CKSRYB105K6R3
	C6449-C6455,C6630,C6632,C6635		CKSRYB105K6R3
	C6648-C6650		CKSRYB105K6R3
	C6436,C6437,C6636		CKSSYF104Z16

RESISTORS

	Other Resistors		RS1/16SS###J

[AD SUB BLOCK]

SEMICONDUCTORS

	IC6602		AD80058
	IC6604		BA7078AF
	IC6601		SM5301BS
	IC6603,IC6607		TC74VHC126FT
	Q6605		HN1B04FU
	Q6601		RN1303

COILS AND FILTERS

	F6601-F6604	EMI FILTER	CCG1162

CAPACITORS

	C6622,C6640 (10/6.3)		ACG7046
	C6644		CCSRCH151J50
	C6638		CKSRYB103K50
	C6604,C6624		CKSRYB104K16
	C6608,C6611,C6612,C6621,C6631		CKSRYB105K6R3
	C6633,C6634		CKSRYB105K6R3
	C6609,C6614,C6623		CKSRYB473K16
	C6642		CKSRYB474K10
	C6641		CKSRYB562K50
	C6602		CKSRYB822K50
	C6601		CKSRYB823K16
	C6603,C6605-C6607,C6610,C6613		CKSSYF104Z16
	C6615-C6620,C6625-C6629,C6639		CKSSYF104Z16
	C6643,C6645,C6647		CKSSYF104Z16

RESISTORS

	R6681,R6685		RAB4CQ101J
	R6608,R6613,R6621,R6627		RAB4CQ330J
	R6643,R6644		RAB4CQ330J
	R6628,R6636-R6641		RS1/16S0R0J
	R6607,R6611,R6612,R6619,R6620		RS1/16S1000F
	R6626		RS1/16S1000F
	R6609		RS1/16S104J
	R6625		RS1/16S1101F
	R6679		RS1/16S153J
	R6673		RS1/16S221J
	R6680		RS1/16S222J
	R6617		RS1/16S224J
	R6601		RS1/16S2701F
	R6610		RS1/16S472J
	R6666		RS1/16S682J
	Other Resistors		RS1/16SS###J

[HDMI RX BLOCK]

Mark	No.	Description	Part No.

SEMICONDUCTORS

	IC6880		BR24L02FJ-W
	IC6803		PCM1742KE
	IC6881		SII9993CTG100
	IC6806		TC74HC4538AFT
	Q6888,Q6889		2SA1586
	Q6885,Q6886		2SC4116
	Q6884,Q6887		RN1303
	Q6881		RN1902
	Q6882		RN2303
	Q6880		SM6K2
	D6880,D6881		1SS302
	D6808		1SS355
	D6806,D6807,D6884		DAN202U
	D6883		UDZS6R8(B)

COILS AND FILTERS

	F6881	EMI FILTER	CCG1162

CAPACITORS

	C6802,C6849,C6851 (10/6.3)		ACG7046
	C6880,C6882,C6884,C6886		CCSRCH101J50
	C6888,C6889,C6892,C6895,C6896		CCSRCH101J50
	C6899-C6902,C6905,C6906,C6915		CCSRCH101J50
	C6917		CCSRCH101J50
	C6927,C6928		CCSRCH221J50
	C6921,C6922		CEHVKW101M6R3
	C6911		CEHVKW220M6R3
	C6913		CKSRYB104K16
	C6920		CKSRYB473K16
	C6831,C6848,C6856,C6857,C6881		CKSSYF104Z16
	C6883,C6885,C6887,C6890,C6891		CKSSYF104Z16
	C6893,C6894,C6897,C6898		CKSSYF104Z16
	C6903,C6904,C6907-C6910,C6912		CKSSYF104Z16
	C6916,C6923-C6926		CKSSYF104Z16
	C6854,C6855 (10uF/16V)		DCH1165

RESISTORS

	R6881-R6883,R6885,R6892,R6896		RAB4CQ101J
	R6901,R6904		RAB4CQ101J
	R6859		RS1/16S0R0J
	R6939,R6940		RS1/16S104J
	R6832,R6833		RS1/16S222J
	R6889		RS1/16S3900F
	R6915		RS1/16S3901F
	R6872		RS1/16S473J
	Other Resistors		RS1/16SS###J

OTHERS

	JA6881	HDMI CONNECTOR	AKP1232

CAPACITORS

	C6853		CCSRCH470J50

RESISTORS

	R6826		RAB4CQ101J
	R6834,R6836,R6944,R6947-R6950		RAB4CQ103J
	R6835,R6839,R6937,R6938		RAB4CQ470J
	Other Resistors		RS1/16SS###J

[ROZ BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC6951		PD6435A
	Q6951		RN1303

CAPACITORS

Mark	No.	Description	Part No.
	C6959,C6960		CCSRCH150J50
	C6951		CEHVKW101M6R3
	C6952-C6954,C6956-C6958		CKSSYF104Z16
	C6961,C6962,C6964-C6968		CKSSYF104Z16

RESISTORS

Mark	No.	Description	Part No.
	R6951-R6953,R6956-R6962,R6966		RAB4CQ100J
	R6968,R6972		RAB4CQ100J
	R6945,R6946,R6988		RAB4CQ103J
	Other Resistors		RS1/16SS###J

OTHERS

Mark	No.	Description	Part No.
	X6951	CERAMIC RESONATOR	ASS1169

RESISTORS

Mark	No.	Description	Part No.
	R6982-R6986,R6992		RAB4CQ101J
	Other Resistors		RS1/16SS###J

OTHERS

Mark	No.	Description	Part No.
	CN6951	50P CONNECTER	AKM1201

[CELIA BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC7001,IC7002		HY57V643220CT-7
	IC7004		PE5362A
	IC7003		TC74LCX125FT

COILS AND FILTERS

Mark	No.	Description	Part No.
	F7001,F7002	EMI FILTER	CCG1162

CAPACITORS

Mark	No.	Description	Part No.
	C7031 (10/6.3)		ACG7046
	C7029,C7041		ACH1365
	C7064		CCSRCH100D50
	C7025,C7066,C7067		CCSRCH221J50
	C7001-C7024,C7026-C7028		CKSSYF104Z16
	C7032-C7040,C7042-C7063		CKSSYF104Z16

RESISTORS

Mark	No.	Description	Part No.
	R7013-R7018,R7030		RAB4CQ220J
	R7007		RS1/16S220J
	Other Resistors		RS1/16SS###J

OTHERS

Mark	No.	Description	Part No.
	X7001	CRYSTAL OSCILLATOR (85MHz)	ASS1174

[MIKE BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC7152		MBM29PL3200BE70PFV
	IC7101		PD5855A

COILS AND FILTERS

Mark	No.	Description	Part No.
	F7101,F7102		CCG1162

CAPACITORS

Mark	No.	Description	Part No.
	C7103,C7120 (330uF/6.3V)		ACH1365
	C7101,C7102,C7104-C7119		CKSSYF104Z16
	C7121-C7135,C7152,C7158-C7162		CKSSYF104Z16

RESISTORS

Mark	No.	Description	Part No.
	R7113,R7115,R7116,R7119,R7121		RAB4CQ101J
	R7123,R7124		RAB4CQ101J
	R7102,R7105-R7108,R7110,R7111		RAB4CQ330J
	Other Resistors		RS1/16SS###J

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC7151		MBM29PL3200BE70PFV

CAPACITORS

Mark	No.	Description	Part No.
	C7151,C7153-C7157		CKSSYF104Z16

RESISTORS

Mark	No.	Description	Part No.
	Other Resistors		RS1/16SS###J

[MAIN UCOM BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC7205		BR24L64F-W
	IC7207		MB91F355APMTGE1
	IC7201		MM1522XU
	IC7209		NJM12904V
	IC7211		PQ20WZ11
	IC7210		PST3612UR
	IC7203,IC7206		PST3628UR
	IC7202		TC74VHC125FT
	Q7203		2SA1586
	Q7201		2SJ461A
	Q7202		HN1C01FU
	Q7206,Q7207		RN1902
	D7201,D7202		1SS355
	D7203		SML-311UT
	D7204		UDZS2R7(B)

CAPACITORS

Mark	No.	Description	Part No.
	C7244		CCSRCH100D50
	C7231		CCSRCH102J50
	C7243,C7245		CCSRCH221J50
	C7241,C7242,C7248,C7249		CCSRCH470J50
	C7213,C7218		CCSRCH7R0D50
	C7205		CEHVKW101M6R3
	C7201,C7217,C7236,C7239,C7252		CKSRYB103K50
	C7226,C7237		CKSRYB104K16
	C7216		CKSRYB472K50
	C7209-C7212,C7214,C7215,C7219		CKSSYF104Z16
	C7221-C7225,C7227-C7229		CKSSYF104Z16
	C7232-C7234,C7238,C7240		CKSSYF104Z16
	C7246,C7247,C7253 (10uF/16V)		DCH1165

RESISTORS

Mark	No.	Description	Part No.
	R7221,R7229,R7241,R7248-R7250		RAB4CQ101J
	R7201		RAB4CQ472J
	R7244,R7245,R7275,R7286,R7287		RS1/16S0R0J
	R7290,R7295-R7306		RS1/16S0R0J
	R7269		RS1/16S101J
	R7278		RS1/16S2201F
	R7215		RS1/16S223J
	R7279		RS1/16S4700F
	R7227,R7260		RS1/16S473J
	R7224		RS1/16S682J
	R7280		RS1/16S7500F
	R7277		RS1/16S8201F
	Other Resistors		RS1/16SS###J

OTHERS

Mark No.	Description	Part No.
CN7203	3P CONNECTOR	AKM1213
CN7201	PLUG 8-P	AKM1225
CN7202	3P PH CONNECTOR	AKM1274
X7201	CERAMIC RESONATOR	ASS1170

SEMICONDUCTORS

Mark No.	Description	Part No.
IC7204		TC74VHC125FT

CAPACITORS

Mark No.	Description	Part No.
C7258-C7261		CCSRCH470J50
C7256,C7257		CKSRYB103K50
C7220		CKSSYF104Z16

RESISTORS

Mark No.	Description	Part No.
Other Resistors		RS1/16SS###J

OTHERS

Mark No.	Description	Part No.
CN7204	3P PH CONNECTOR	AKM1274

[MR IF BLOCK] [REGLATORBLOCK]

SEMICONDUCTORS

Mark No.	Description	Part No.
IC7453		BA33BC0WFP
IC7454		BA50BC0WFP
IC7456		NCP1117DT15
IC7401		SII170BCLG64
IC7404		TC74VCX08FT
IC7403		TC74VCX574FT
IC7451		TC74VHC08FT
Q7406		2SA1586
Q7405		HN1C01FU
Q7403,Q7407,Q7408		RN1303
Q7451		RN1901
Q7401		RN1902
Q7402,Q7404,Q7409		RN2303
D7401-D7407,D7457-D7459		1SS355

COILS AND FILTERS

Mark No.	Description	Part No.
F7405-F7408	EMI FILTER	ATF1209
L7401	(3.3uH)	ATH1162
F7401-F7404	EMI FILTER	CCG1162

CAPACITORS

Mark No.	Description	Part No.
C7416,C7421,C7424,C7484	(10/6.3)	ACG7046
C7474	(330uF/6.3V)	ACH1365
C7401,C7402		CCSRCH100D50
C7475,C7477-C7482		CCSRCH221J50
C7403,C7404,C7406,C7407		CCSRCH820J50
C7410,C7411,C7413,C7414,C7419		CCSRCH820J50
C7456,C7460,C7465		CEHVKW101M6R3
C7405,C7412,C7415,C7417,C7418		CKSSYF104Z16
C7420,C7423,C7451,C7452		CKSSYF104Z16
C7454,C7455,C7458,C7459,C7466		CKSSYF104Z16
C7469,C7473,C7476		CKSSYF104Z16
C7453,C7457	(10uF/16V)	DCH1165

RESISTORS

Mark No.	Description	Part No.
R7425,R7449,R7451,R7452,R7454		RAB4CQ101J
R7481,R7497-R7499		RAB4CQ101J
R7453		RAB4CQ103J
R7440,R7441,R7443		RS1/16S0R0J
R7417,R7418,R7429,R7431		RS1/16S111J
R7428,R7430		RS1/16S272J
R7410		RS1/16S5100F
R7456		RS1LMF1R5J
R7455		RS2LMF4R7J
Other Resistors		RS1/16SS###J

OTHERS

Mark No.	Description	Part No.
CN7454,CN7455	50P CONNECTER	AKM1201
CN7453	PLUG 15-P	AKM1232
CN7402	16P FFC CONNECTOR	AKM1234
CN7451	PH 15P CONNECTOR	AKM1301
CN7401	DVI SOCKET (24P)	AKP1250

SEMICONDUCTORS

Mark No.	Description	Part No.
IC7452		TC74VHC126FT

CAPACITORS

Mark No.	Description	Part No.
C7137,C7485,C7486		CCSRCH470J50
C7068,C7471		CKSSYF104Z16

RESISTORS

Mark No.	Description	Part No.
R7477		RAB4CQ101J
R7383	(AWZ6944 only)	RS1/16S222J
R7385	(AWZ6990 only)	RS1/16S222J
Other Resistors		RS1/16SS###J

B AV BOARD ASSY (AWZ6946/AWZ6986)

[TUNER BLOCK]

SEMICONDUCTORS

Mark No.	Description	Part No.
IC7502		MSP3417G
IC7501		TDA9818TS
Q7503,Q7504,Q7506,Q7513,Q7522		2SA1586
Q7524,Q7527,Q7528,Q7537		2SA1586
Q7511,Q7517		2SC4082
Q7501,Q7502,Q7505,Q7509,Q7512		2SC4116
Q7514,Q7518-Q7520,Q7526,Q7530		2SC4116
Q7533-Q7536,Q7538		2SC4116
Q7516		2SC4213
Q7532		DTA124EUA
Q7531		DTC124EUA
D7504		1SS355
D7502,D7503		1SS356
D7501		UDZS33(B)

COILS AND FILTERS

Mark No.	Description	Part No.
L7501		LCTAW100J2520
L7512,L7513		LCTAW150J2520
L7520		LCTAW270J2520
L7514		LCTAW4R7J2520
L7511		LCTAW8R2J2520
L7519		LCTAWR22J2520
L7516		LCTAWR27J2520
L7505,L7507		LCTAWR68J2520
F7511,F7512		VTF1080
F7506	SAW FILTER	VTF1177
F7503	SAW FILTER	VTF1179
F7504	IF TRAP FILTER	VTF1180
F7505	IF TRAP FILTER	VTF1181
F7501	TRAP FILTER	VTF1183
L7504	VCO COIL	VTL1164

CAPACITORS

Mark No.	Description	Part No.
C7507	(220uF/10V)	ACH1368
C7552	(3.3uF/50V)	ACH1385

Mark	No.	Description	Part No.
	C7509,C7525,C7549,C7591,C7599 (100uF/16V)		ACH1394
	C7564,C7573		CCSRCH102J50
	C7515		CCSRCH120J50
	C7568		CCSRCH121J50
	C7578		CCSRCH181J50
	C7601		CCSRCH220J50
	C7567		CCSRCH470J50
	C7556,C7558		CCSRCH560J50
	C7569		CCSRCH5R0C50
	C7576		CCSRCH680J50
	C7602		CCSRCH820J50
	C7570		CCSRCJ3R0C50
	C7501		CEHVKW100M50
	C7596		CEHVKW330M10
	C7542		CEHVKW470M16
	C7537,C7539		CKSQYB225K10
	C7502,C7520,C7522,C7523		CKSRYB102K50
	C7534,C7535,C7579,C7580		CKSRYB102K50
	C7514,C7524,C7528,C7536,C7545		CKSRYB103K50
	C7554,C7572		CKSRYB103K50
	C7541		CKSRYB104K16
	C7503		CKSRYB105K10
	C7559,C7561,C7588		CKSRYB152K50
	C7590		CKSRYB221K50
	C7504,C7505,C7526		CKSRYB222K50
	C7540		CKSRYB224K10
	C7518		CKSRYB332K50
	C7557,C7560,C7589		CKSRYB471K50
	C7563,C7571		CKSRYB472K50
	C7575		CKSRYF104Z16
	C7506,C7510,C7513,C7527,C7531		CKSRYF104Z50
	C7547,C7550,C7551,C7555,C7577		CKSRYF104Z50
	C7511,C7546,C7548,C7553,C7562		DCH1165
	C7587 (10uF/16V)		DCH1165

RESISTORS

	R7568		RD1/2LMF100J
	R7633		RS1/16S1201F
	R7524		RS1/16S2203F
	R7554		RS1/16S2700F
	R7544,R7552		RS1/16S2702F
	R7504		RS1/16S3302F
	R7655,R7656		RS1/16S5600F
	R7555		RS1/16S6800F
	VR7504		CCP1390
	VR7502		CCP1398
	Other Resistors		RS1/16S###J

OTHERS

	X7501	CERAMIC RESONATOR (18.432 MHz)	VSS1189
⚠	U7501	TV FRONTEND	AXF1133

[AV IO BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q7706,Q7707,Q7710,Q7716		2SA1586
	Q7723,Q7724,Q7728,Q7740,Q7743		2SA1586
	Q7748		2SA1586
	Q7702,Q7703,Q7705,Q7712-Q7714		2SC4116
	Q7719,Q7720,Q7722,Q7726,Q7727		2SC4116
	Q7729-Q7731,Q7733,Q7735,Q7737		2SC4116
	Q7739,Q7742,Q7744,Q7746,Q7747		2SC4116
	Q7749,Q7758-Q7760		2SC4116
	Q7704,Q7721,Q7738,Q7741		DTA124EUA
	Q7754,Q7755,Q7757		DTA124EUA
	Q7715		DTC124EUA
	Q7717,Q7718,Q7725,Q7734,Q7736		HN1A01FU
	Q7701,Q7745		HN1C01FU
	D7709,D7710,D7715,D7722		1SS301
	D7705-D7708,D7713,D7714,D7716		1SS302
	D7719,D7720		1SS302
	D7703,D7721		1SS355
	D7701,D7711,D7717		UDZS12(B)
	D7702,D7712,D7718,D7723-D7735		UDZS9R1(B)

COILS AND FILTERS

	L7701,L7702,L7705,L7706		LCTAW1R0J2520
	L7709,L7710		LCTAW1R0J2520
	L7703,L7704,L7707,L7708		LCTAW560J2520
	L7711-L7714		LCTAW560J2520

SWITCHES AND RELAYS

	S7701		ASH1029

CAPACITORS

	C7714,C7719,C7726,C7729,C7736		CCG1205
	C7740,C7760,C7761 (2.2/10)		CCG1205
	C7706,C7709,C7728,C7730,C7743		CEHAT471M10
	C7756		CEHAT471M10
	C7716		CEVWNP470M10
	C7773-C7780		CKSRYB102K50
	C7757		CKSRYB103K50
	C7701-C7703,C7722-C7725,C7735		CKSRYB105K10
	C7746-C7749,C7752-C7754,C7758		CKSRYB105K10
	C7705,C7727,C7731,C7741,C7744		CKSRYF104Z50
	C7751		CKSRYF104Z50
	C7707,C7708,C7712,C7713,C7715		DCH1165
	C7717,C7718,C7720,C7734		DCH1165
	C7737,C7738,C7742,C7745,C7750		DCH1165
	C7755,C7759,C7762-C7764 (10uF/16V)		DCH1165

RESISTORS

	R7708,R7717,R7756,R7757,R7761		RS1/10S151J
	R7777,R7801,R7802,R7809,R7810		RS1/10S151J
	R7820,R7834		RS1/10S151J
	R7841		RS1/16S1001F
	R7842		RS1/16S1501F
	R7709,R7718,R7723,R7724,R7729		RS1/16S75R0F
	R7735,R7739,R7745,R7770,R7821		RS1/16S75R0F
	R7843,R7853,R7858		RS1/16S75R0F
	Other Resistors		RS1/16S###J

OTHERS

	JA7703	6P PIN JACK	AKB1300
⚠	JA7701	RGB CONNECTOR	AKP1265
⚠	JA7705	RGB CONNECTOR	AKP1266

SEMICONDUCTORS

	IC7701,IC7702		TC74VHC125FT
	Q7752,Q7753		2SA1586
	Q7750,Q7751		2SC4116
	Q7711,Q7761		DTA124EUA

Mark	No. Description	Part No.
	Q7762	DTC124EUA
	D7736,D7737	1SS301

CAPACITORS

	C7767	ACH1400
	C7768	CKSRYB224K10
	C7765,C7766	CKSRYF104Z50

RESISTORS

	Other Resistors	RS1/16S###J

OTHERS

	JA7704 PINJACK+MINI DIN 4P	AKB1307

[AV SW BLOCK]

SEMICONDUCTORS

	IC8005	AN15852A
	IC8002	CXA2069Q
	IC8004	NJM12904V
	IC8003	TC4052BFT
	Q8005,Q8006	2SA1586
	Q8021,Q8022,Q8025	2SC4116
	Q8023	DTA124EUA
	Q8024	DTC124EUA
	Q8011	HN1C01FU
	D8017	1SS355

CAPACITORS

	C8005,C8006,C8056 (100uF/16V)	ACH1394
	C8014 (22uF/16V)	ACH1400
	C8022,C8027	CCSRCH181J50
	C8057	CCSRCH270J50
	C8019,C8038	CCSRCH681J50
	C8002-C8004,C8008,C8009,C8016	CKSRYB105K10
	C8001,C8013,C8015,C8025,C8026	CKSRYF104Z50
	C8031-C8036,C8039,C8042-C8044	CKSRYF104Z50
	C8048,C8052,C8053,C8055,C8059	CKSRYF104Z50
	C8010,C8012,C8018,C8023,C8024	DCH1165
	C8028,C8037,C8040,C8041	DCH1165
	C8060,C8061 (10uF/16V)	DCH1165

RESISTORS

	Other Resistors	RS1/16S###J

SEMICONDUCTORS

	IC8001	TC7WH123FU
	Q8026,Q8027	2SC4116
	D8015,D8016	1SS355
	D8013,D8014	UDZS9R1(B)

CAPACITORS

	C8050	CKSRYB105K10
	C8076,C8077	CKSRYB471K50
	C8049	CKSRYF104Z50
	C8051 (10uF/16V)	DCH1165

RESISTORS

	Other Resistors	RS1/16S###J

SEMICONDUCTORS

	IC8006	BH3540AFS
	IC8007	BH3544F
	Q8007,Q8008,Q8012,Q8014	2SA1586
	Q8013,Q8015,Q8019,Q8020	2SC4116

Mark	No. Description	Part No.
	Q8028	HN1B04FU

CAPACITORS

	C8064,C8065	CEHVKW100M16
	C8075	CEHVKW470M16
	C8063,C8066,C8069,C8070	CKSRYB105K10
	C8072-C8074	CKSRYB105K10
	C8071	CKSRYB471K50
	C8080,C8081	DCH1165

RESISTORS

	R8125,R8127	RD1/2LMF120J
	Other Resistors	RS1/16S###J

[AV REG BLOCK]

SEMICONDUCTORS

	IC8505,IC8506	BA50BC0WFP
	IC8504	BA90BC0WFP
	IC8509	BD6522F
	IC8503	M5291FP
	IC8508	NCP1117DT25
	IC8507	NCP1117ST33
	Q8507,Q8550	2SC4116
	Q8515	DTC124EUA
	Q8511	TPC8003
	D8506,D8509-D8513	1SS355
	D8550	UDZS5R6(B)

COILS AND FILTERS

	L8502 INDUCTOR	ATH1126
	F8501-F8504,F8506,F8508,F8510 EMI FILTER	CCG1162
⚠	L8505-L8507	LCTAWR22J2520

CAPACITORS

	C8536 (47uF/16V)	ACH1371
	C8512 (100uF/16V)	ACH1394
	C8519	CCSRCH221J50
	C8506	CCSRCH560J50
	C8520	CEHAT101M50
	C8545,C8559	CEHAZL471M16
	C8563	CEHVKW100M16
	C8561	CEHVKW100M50
	C8517,C8523,C8528,C8533	CEHVKW101M6R3
	C8510,C8515,C8521,C8526,C8531	CEHVKW220M16
	C8565	CEHVKW220M16
	C8511,C8513,C8516,C8518,C8522	CKSRYB103K50
	C8524,C8527,C8529,C8530,C8532	CKSRYB103K50
	C8534,C8540,C8542,C8551,C8560	CKSRYB103K50
	C8562,C8564	CKSRYB103K50
	C8514	CKSRYB821K50
	C8505,C8539,C8541,C8550 (10uF/16V)	DCH1165

RESISTORS

	R8508	ACN1164
	R8506,R8510,R8511,R8522,R8530	ACN1188
	R8533-R8535,R8560-R8563	ACN1188
	R8551	ACN1199
	R8550	RD1/2LMF181J
	R8509	RS1/16S1101F
	R8520	RS1/16S3302F

Mark	No.	Description	Part No.
	R8528,R8531,R8543,R8545		RS1LMF1R0J
	R8525		RS1LMF3R3J
	R8554		RS3LMF121J
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN8651	PLUG(15P)	KM200NA15

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC8502		M5291FP
	Q8508		2SD1664
	Q8509,Q8514		DTC124EUA
	D8516		RB160M-30

COILS AND FILTERS

Mark	No.	Description	Part No.
	F8512-F8514		CCG1162
	L8504		LCTAW560J2520

CAPACITORS

Mark	No.	Description	Part No.
	C8556		CCSRCH221J50
	C8554		CCSRCH681J50
	C8555		CEHAZL471M16
	C8553		CEHVKW101M6R3

RESISTORS

Mark	No.	Description	Part No.
	R8568,R8569,R8571		ACN1163
	R8572		RS1/16S1501F
	R8573		RS1/16S6801F
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN8502		KM200NA6
	U8502	DD CON UNIT	AXY1090

COILS AND FILTERS

Mark	No.	Description	Part No.
	L8503		ATH1185

[BOARD IF BLOCK]

CAPACITORS

Mark	No.	Description	Part No.
	C8656,C8657 (2.2/10)		CCG1205
	C8658-C8660		CKSRYB105K10
	C8653-C8655,C8661-C8663		DCH1165

RESISTORS

Mark	No.	Description	Part No.
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN8652-CN8654	50P CONNECTER	AKM1201
	CN8658	12P FFCCONNECTOR	AKM1233

OTHERS

Mark	No.	Description	Part No.
	CN8662	40P CONNECTER	AKM1303

OTHERS

Mark	No.	Description	Part No.
	CN8660	12P FFCCONNECTOR	AKM1233

[UIF UCOM BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC8705		BR24L01AFJ-W
	IC8702		HD64F3687FP
	IC8703		PST9231N
	IC8701		TC74VHC08FT
	IC8704		TC7W126FU
	Q8703		DTA124EUA
	Q8702		DTC124EUA

CAPACITORS

Mark	No.	Description	Part No.
	C8711 (100uF/16V)		ACH1394
	C8706,C8707		CCSRCH180J50
	C8717,C8718		CCSRCH470J50
	C8709		CKSRYB472K50
	C8701-C8705,C8708,C8712,C8713		CKSRYF104Z50
	C8716 (10uF/16V)		DCH1165

RESISTORS

Mark	No.	Description	Part No.
	R8719		RAB4C101J
	R8702,R8704,R8720,R8745		RAB4C103J
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN8701	PLUG 8-P	AKM1225
	X8702	CERAMIC RESONATOR	ASS1168
	X8701	CRYSTAL OSCILLATOR (32.768kHz)	ASS1172

[TELETEXT BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC8901		PST9230N
	IC8904		SDA6000
	IC8907		TC7SH04FU
	IC8902		TC7W126FU
	Q8904-Q8906		2SA1586
	Q8909		2SC4116
	Q8911		2SC5729
	Q8913		DTA124EUA
	Q8910,Q8914		DTC124EUA
	Q8907,Q8908		RN1902
	D8902		UDZS3R0(B)
	D8901		UDZS3R9(B)

CAPACITORS

Mark	No.	Description	Part No.
	C8916		CCSRCH180J50
	C8917		CCSRCH220J50
	C8941,C8942,C8944-C8949		CCSRCH560J50
	C8952-C8956		CCSRCH560J50
	C8904,C8940		CKSRYB102K50
	C8903		CKSRYB103K50
	C8926		CKSRYB104K16
	C8901		CKSRYB471K50
	C8902,C8909-C8911,C8914,C8915		CKSRYF104Z50
	C8918-C8920,C8923-C8925		CKSRYF104Z50
	C8927,C8928,C8930-C8936		CKSRYF104Z50
	C8937-C8939 (10uF/16V)		DCH1165

RESISTORS

Mark	No.	Description	Part No.
	R8891,R8893,R8894		RAB4C100J
	R8905-R8907,R8922,R8960,R8991		RAB4C101J
	R8896-R8899		RAB4C150J
	R8999-R9001		RS1/16S1801F
	R8996-R8998		RS1/16S9101F
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN8901	PLUG 8-P	AKM1225

Mark	No.	Description	Part No.
	K 8905	TEST PIN	AKX9002
	X8901	CRYSTAL OSCILLATOR	ASS1187

[MEMORY SW BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9104		K4S641632H-TC75
	IC9105		TC4051BF
	Q9102-Q9104,Q9106		2SA1586
	Q9101,Q9105		2SC5729
	Q9108		DTA124EUA
	Q9107		DTC124EUA
	D9101-D9104,D9106		1SS355
	D9105		UDZS12(B)

CAPACITORS

Mark	No.	Description	Part No.
	C9128,C9132-C9139		CCSRCH560J50
	C9117,C9131		CKSRYB474K10
	C9101,C9107-C9110,C9113,C9114		CKSRYF104Z50
	C9116,C9119,C9120,C9123		CKSRYF104Z50
	C9129,C9130		CKSRYF104Z50

RESISTORS

Mark	No.	Description	Part No.
	R9141-R9144		RAB4C470J
	Other Resistors		RS1/16S###J

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9107		TC4051BF

CAPACITORS

Mark	No.	Description	Part No.
	C9124		CKSRYF104Z50

E MDR ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9301,IC9302		TC74VHC08FT
	Q9301,Q9302		2SC4116
	Q9303		DTA124EUA

CAPACITORS

Mark	No.	Description	Part No.
	C9304		CCSRCH101J50
	C9301,C9305-C9308		CCSRCH471J50
	C9302,C9303		CKSRYF104Z50

RESISTORS

Mark	No.	Description	Part No.
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN9301	SOCKET (20P)	AKP1226
	CN9302	CONNECTOR	CKS3830

F SR ASSY (AWZ6949)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9451		SP3232ECY
	IC9452		TC74VHC125FT

CAPACITORS

Mark	No.	Description	Part No.
	C9456,C9457		CEHVKW100M16
	C9451-C9455,C9460		CKSRYF104Z16

RESISTORS

Mark	No.	Description	Part No.
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	JA9451	9P D-SUB SOCKET	AKP1240

Mark	No.	Description	Part No.
	CN9452	CONNECTOR	CKS3826

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9453		TC74VHC00FT
	Q9455,Q9458		2SA1586
	Q9453		2SC4116
	Q9454,Q9456,Q9457		DTC124EUA
	D9451,D9452,D9459,D9460		1SS355

CAPACITORS

Mark	No.	Description	Part No.
	C9459		CKSRYF104Z16

RESISTORS

Mark	No.	Description	Part No.
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	JA9453	MINI JACK(4P)	AKN1073
	JA9452	JACK	RKN1004

G FRONT ASSY (AWZ6951)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	D9509-D9511,D9517,D9518		UDZS9R1(B)

COILS AND FILTERS

Mark	No.	Description	Part No.
	L9503,L9504		LCTAW1R0J2520

CAPACITORS

Mark	No.	Description	Part No.
	C9505,C9506		CKSRYB103K50
	C9504		CKSRYB104K16
	C9507-C9510		CKSRYB105K10
	C9503		CKSRYB473K16
	C9516		CKSRYF104Z16
	C9515,C9523,C9534-C9536		DCH1165

RESISTORS

Mark	No.	Description	Part No.
	R9504,R9507,R9508		RS1/16S75R0F
	Other Resistors		RS1/16S###J

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9501		BR24C21FJ
	IC9502		TC74VHC08FT
	Q9503-Q9505		2SC4116
	Q9501,Q9502		DTC124EUA
	D9503		1SS301
	D9506-D9508		1SS302
	D9501,D9502,D9504,D9505		UDZS5R6(B)
	D9512,D9513		UDZS5R6(B)

COILS AND FILTERS

Mark	No.	Description	Part No.
	L9505,L9506		LCTAW1R0J2520
	L9501,L9502		LCTAW560J2520

CAPACITORS

Mark	No.	Description	Part No.
	C9517,C9518		CCSRCH220J50
	C9501,C9502		CEHAT471M10
	C9520-C9522		CEHVKW470M6R3
	C9531-C9533		CKSRYB103K50
	C9514		CKSRYB104K16
	C9511,C9512		CKSRYB105K10
	C9519		CKSRYF104Z16
	C9513		DCH1165

Mark	No.	Description	Part No.

RESISTORS

	R9534-R9536		RS1/16S75R0F
	Other Resistors		RS1/16S###J

OTHERS

	CN9503	MINI JACK	AKN1028
	JA9505	15P D-SUB SOCKET	AKP1241
	JA9503	JACK	RKN1026

OTHERS

	JA9501	PIN JACK(3P)	AKB1303
	CN9502	50P CONNECTER	AKM1201
	JA9502	4P MINIDIN SOCKET(S)	AKP1238

OTHERS

⚠	9501	F GROUNDIG PLATE	ANG2657

H LED ASSY (AWZ6953)

SEMICONDUCTORS

	Q9651		DTA124EUA
	Q9652		RN2902
	D9652		SML-310DT
	D9654		SML-310MT
	D9653		SML-311UT

CAPACITORS

	C9651		CKSRYB103K50

RESISTORS

	Other Resistors		RS1/16S###J

OTHERS

	CN9651	7P PH CONNECTOR	AKM1293

I TUNER BOARD ASSY

SEMICONDUCTORS

	IC9013		XYW1004

OTHERS

	9012	PCMCIA EJECTOR	ANG2673
	9005-9007	SCREW	BBZ30P060FTB
	9008-9011	SCREW	PMZ20P100FNI
	9003	TOP CAN	XNG1001
	9004	HEAT SINK	XNH1004

[TUNER BLOCK]

SEMICONDUCTORS

	IC1001		STV0361L
	IC1000		UPC3221GV
	Q1001		2SC2412K
	Q1002		DTC124EUA
	Q1003,Q1004		RK7002
	D1000		1SS355
	D1300		SM15T6V8A
	D1001,D1002		UDZS3R6(B)

COILS AND FILTERS

	L1003		LCYAR82J2520
	F1006,F1007,F1011-F1015		VTF1091
	F1100-F1104,F1200	FERRITE CORE	VTF1091
	F1000	SAW FILTER	XTF1002
	L1010	CHIP FERRITE BEADS	XTX1003

Mark	No.	Description	Part No.
	L1000	CHIP BALUN TRANS.	XTX1005

CAPACITORS

	C1018,C1019		CCSRCH101J50
	C1037,C1038		CCSRCH5R0C50
	C1015		CEHVKW100M16
	C1014		CEHVKW100M50
	C1006,C1007,C1013,C1022,C1050		CEHVKW470M16
	C1053-C1056,C1101		CEHVKW470M16
	C1009		CKSRYB102K50
	C1000,C1001,C1010,C1016		CKSRYB103K50
	C1034,C1035,C1039		CKSRYB103K50
	C1003-C1005,C1012,C1017		CKSRYB104K16
	C1020,C1021,C1023-C1025		CKSRYB104K16
	C1027-C1029,C1031-C1033,C1036		CKSRYB104K16
	C1040,C1043-C1049,C1200,C1201		CKSRYB104K16
	C1030		CKSRYB105K10

RESISTORS

	Other Resistors		RS1/16S###J

OTHERS

	X1000	CRYSTAL RESONATOR (27MHz)	XSS1004
	M1000	FRONT END	XXF1006

[DEMUX BLOCK]

SEMICONDUCTORS

	IC2001		SN74LVU04APW
	IC2000		STI5517PWAL
	Q2000		2SC4081
	D2000		DA204U
	D2002		HVU307
	D2001		PDZ8.2B
	D2005,D2009		RB501V-40
	VA2001		AVR-M1608C120MT2AB

COILS AND FILTERS

	F2000-F2003	FERRITE CORE	VTF1091
	L2200	CHIP FERRITE BEADS	XTX1003

CAPACITORS

	C2012,C2014		CCSRCH100D50
	C2024,C2028,C2047		CCSRCH101J50
	C2008		CCSRCH330J50
	C2009,C2010		CCSRCH390J50
	C2006		CCSRCH471J50
	C2030-C2032,C2034		CEHVKW470M16
	C2007,C2015,C2018,C2019		CKSRYB102K50
	C2011		CKSRYB105K10
	C2000		CKSRYB471K50
	C2001,C2002,C2004,C2005		CKSRYF104Z16
	C2016,C2017,C2020-C2023,C2026		CKSRYF104Z16
	C2033,C2035-C2039,C2041-C2043		CKSRYF104Z16
	C2045,C2046		CKSRYF104Z16
	C2013		CKSRYF105Z10
	C2025,C2027,C2040,C2044		CKSRYF223Z50
	C2003		CKSRYF474Z16

RESISTORS

	R2008,R2016,R2030		RAB4C103J
	R2200,R2201		RAB4CQ470J

Mark	No.	Description	Part No.
	Other Resistors		RS1/16S###J

OTHERS

	X2001	CRYSTAL RESONATOR	ASS1172
	X2000	CRYSTAL RESONATOR (27MHz)	BSS1112

[MEMORY BLOCK]

SEMICONDUCTORS

	IC3000,IC3003		K4S281632F-UC75

COILS AND FILTERS

	L3001	CHIP FERRITE BEADS	XTX1001
	L3000	CHIP FERRITE BEADS	XTX1003

CAPACITORS

	C3005		CEHVKW470M16
	C3002-C3004,C3006,C3011		CKSRYF104Z16
	C3014-C3016,C3020		CKSRYF104Z16
	C3000,C3001,C3007,C3008		CKSRYF223Z50
	C3012,C3013,C3017-C3019		CKSRYF223Z50

RESISTORS

	R3003,R3102-R3111		RAB4CQ470J
	Other Resistors		RS1/16S###J

[A/V BLOCK]

SEMICONDUCTORS

	IC4008		CS5340CZZ
	IC4003		CS8406CZZ
	IC4000		SN74LVU04APW
	IC4001		TSH72CDT
	Q4000,Q4100-Q4104		2SC4081
	Q4200		DTC124EUA
	D4002		PDZ10B

COILS AND FILTERS

	F4000	FERRITE CORE	VTF1091

CAPACITORS

	C4056		CCSRCH101J50
	C4004,C4007		CCSRCH220J50
	C4019-C4023,C4025		CEHVKW100M16
	C4015,C4027,C4032,C4033		CEHVKW2R2M50
	C4008,C4053,C4100		CEHVKW470M16
	C4003		CKSRYB102K50
	C4006,C4030,C4048,C4052		CKSRYB103K50
	C4101-C4104		CKSRYB103K50
	C4011,C4012,C4054,C4055		CKSRYB105K10
	C4002,C4005,C4009,C4010		CKSRYB332K50
	C4000,C4001,C4013,C4014,C4018		CKSRYF104Z16
	C4024,C4026,C4028,C4029,C4057		CKSRYF104Z16

RESISTORS

	R4029,R4032-R4035,R4037		RS1/16S2000F
	Other Resistors		RS1/16S###J

OTHERS

	CN4000	40P CONNECTER	AKM1217
	JA4000	OPTICAL OUT MOD.	GP1FM513TZ
	X4000	CRYSTAL (12.288MHz)	XSS1006

[CI BLOCK]

Mark	No.	Description	Part No.

SEMICONDUCTORS

	IC5002		109865-PBF
	IC5003		74LCX245MTCX
	IC5004,IC5005		74LCX373MTCX
	IC5000		BA05SFP
	Q5000		2SA1576A
	Q5002,Q5004,Q5100		DTC124EUA
	Q5101		TPC6004
	D5000		1SS355

CAPACITORS

	C5009,C5202		CEHVKW470M16
	C5000,C5002,C5200		CKSRYB103K50
	C5004-C5008,C5010-C5013,C5100		CKSRYF104Z16

RESISTORS

	R5105-R5108		RAB4C150J
	R5016,R5020,R5024,R5026,R5033		RAB4CQ470J
	R5035,R5039-R5041,R5048-R5053		RAB4CQ470J
	Other Resistors		RS1/16S###J

OTHERS

	CN5000	PCMCIA CONNECTOR	XKP1003

[CPLD/POWER BLOCK]

SEMICONDUCTORS

	IC6200		BA050LBSG2
	IC6001		BA05FP
	IC6000		XC9572XL-10VQG44C
	Q6105		2SA1576A
	Q6100,Q6101		2SC2411K
	Q6104,Q6202		DTA143EUA
	Q6103,Q6200,Q6201		DTC124EUA
	D6003,D6201		1SS355
	D6200		RB501V-40
	D6101-D6103		UDZS5R6(B)

COILS AND FILTERS

	L6100		LCYAR82J2520
	F6100		VTF1091

CAPACITORS

	C6102		CCSRCH101J50
	C6007		CEHVKW100M16
	C6000,C6202		CEHVKW100M50
	C6001,C6003,C6006,C6013,C6014		CEHVKW470M16
	C6016,C6019,C6023,C6027,C6104		CEHVKW470M16
	C6200,C6201		CEHVKW470M16
	C6105		CKSRYB105K10
	C6002,C6004,C6009-C6012		CKSRYF104Z16
	C6017,C6018,C6028,C6103,C6106		CKSRYF104Z16
	C6203		CKSRYF104Z16
	C6204		CKSRYF105Z10
	C6100,C6101		CKSRYF223Z50

RESISTORS

	R6100,R6208		RAB4C390J
	R6201-R6203,R6209		RAB4CQ470J
	R6004,R6006,R6104		RS1/10S0R0J
	R6110		RS1/10S101J
	R6029		RS1/10S681J
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN6003	50P CONNECTER	AKM1236
	CN6002	PH 8P CONNECTOR	AKM1294
	CN6001	PH 9P CONNECTOR	AKM1295

J SW ASSY

SWITCHES AND RELAYS

⚠	S7451		ASG1093

OTHERS

	CN7456	2P-SIDE VA-CONNECTOR	S2P3-VH

K POWER SUPPLY UNIT

POWER SUPPLY UNIT has no service part.

L PC CARD MODULE

PC CARD MODULE has no service part.

• PCB PARTS LIST (PDP-R05FE)

A MR MAIN BOARD ASSY (AWZ6945)

[GCR BLOCK]

RESISTORS

	R6011-R6016,R6021,R6041,R6043		RS1/16S0R0J
	R6045		RS1/16S0R0J

[MICHEL MAIN BLOCK]

SEMICONDUCTORS

	IC6107		PD0278A
	IC6101		TC7W126FU
	Q6108		2SA1586
	Q6101,Q6102		HN1A01FU
	Q6106,Q6107		HN1B04FU

COILS AND FILTERS

	F6101,F6103,F6105-F6107	EMI FILTER	CCG1162
	L6107		LCTAW220J2520
	L6101-L6104		LCYC6R8K2125

CAPACITORS

	C6102 (10/6.3)		ACG7046
	C6126,C6142,C6163,C6164		CCSRCH330J50
	C6171,C6172		CCSRCH330J50
	C6127,C6143		CCSRCH680J50
	C6182,C6186		CEHVKW101M6R3
	C6188		CEHVKW470M6R3
	C6151		CKSQYB225K10
	C6112,C6114		CKSRYB102K50
	C6119,C6136,C6153,C6154		CKSRYB104K16
	C6168,C6169,C6177,C6185		CKSRYB104K16
	C6101,C6155,C6175,C6190		CKSRYB105K6R3
	C6103,C6104,C6107-C6111,C6113		CKSSYF104Z16
	C6116,C6123-C6125,C6130-C6133		CKSSYF104Z16
	C6140,C6141,C6146-C6148,C6150		CKSSYF104Z16
	C6152,C6160-C6162,C6165-C6167		CKSSYF104Z16
	C6170,C6176,C6178-C6181		CKSSYF104Z16

RESISTORS

	R6101,R6104-R6106,R6120		RAB4CQ100J
	R6124,R6125		RAB4CQ100J
	R6136,R6137,R6142-R6145		RS1/16S0R0J
	R6194-R6196		RS1/16S1000F
	R6115,R6131		RS1/16S100J
	R6197,R6207		RS1/16S103J
	R6147		RS1/16S1301F
	R6198,R6208		RS1/16S183J
	R6113,R6129		RS1/16S221J
	R6126,R6138		RS1/16S2701F
	R6112,R6123,R6128,R6141,R6165		RS1/16S271J
	R6175		RS1/16S271J
	R6170,R6171,R6174,R6176		RS1/16S331J
	R6169,R6172,R6189		RS1/16S471J
	R6122,R6140		RS1/16S473J
	R6167,R6168		RS1/16S8201F
	Other Resistors		RS1/16SS###J

OTHERS

	X6101	CRYSTAL OSCILLATOR (27MHz)	ASS1175

SEMICONDUCTORS

	Q6104,Q6105,Q6109		2SA1586

CAPACITORS

	C6266,C6267		CCSRCH470J50
	C6149,C6187,C6189		CKSSYF104Z16

RESISTORS

	R6132-R6134		RAB4CQ103J
	R6256-R6261		RS1/16S0R0J
	Other Resistors		RS1/16SS###J

[AD MAIN BLOCK]

SEMICONDUCTORS

	IC6402		AD80058
	IC6404		BA7078AF
	IC6401		SM5301BS
	IC6405,IC6408		TC74VHC126FT
	Q6405		HN1B04FU
	Q6401		RN1303

COILS AND FILTERS

	F6401-F6404	EMI FILTER	CCG1162

CAPACITORS

	C6422,C6441 (10/6.3)		ACG7046
	C6445		CCSRCH151J50
	C6438		CKSRYB103K50
	C6404,C6424		CKSRYB104K16
	C6408,C6411,C6412,C6421,C6431		CKSRYB105K6R3
	C6434,C6435		CKSRYB105K6R3
	C6409,C6414,C6423		CKSRYB473K16
	C6443		CKSRYB474K10
	C6442		CKSRYB562K50
	C6402		CKSRYB822K50
	C6401		CKSRYB823K16
	C6403,C6405-C6407,C6410,C6413		CKSSYF104Z16

Mark	No.	Description	Part No.
	C6415-C6420,C6425-C6429		CKSSYF104Z16
	C6439,C6440,C6444,C6448		CKSSYF104Z16
RESISTORS			
	R6482,R6489		RAB4CQ101J
	R6405,R6410,R6418,R6424		RAB4CQ330J
	R6438,R6439		RAB4CQ330J
	R6420,R6431-R6436		RS1/16S0R0J
	R6404,R6408,R6409,R6416,R6417		RS1/16S1000F
	R6423		RS1/16S1000F
	R6406		RS1/16S104J
	R6422		RS1/16S1101F
	R6478		RS1/16S153J
	R6472		RS1/16S221J
	R6479		RS1/16S222J
	R6414		RS1/16S224J
	R6401		RS1/16S2701F
	R6413		RS1/16S472J
	R6465		RS1/16S682J
	Other Resistors		RS1/16SS###J
SEMICONDUCTORS			
	IC6403,IC6406		MM1389XFBE
CAPACITORS			
	C6430,C6432,C6433,C6446,C6447		CKSRYB105K6R3
	C6449-C6455		CKSRYB105K6R3
	C6436,C6437		CKSSYF104Z16
RESISTORS			
	R6636-R6641		RS1/16S0R0J
	Other Resistors		RS1/16SS###J
[HDMI RX BLOCK]			
SEMICONDUCTORS			
	IC6880		BR24L02FJ-W
	IC6803		PCM1742KE
	IC6881		SII9993CTG100
	IC6806		TC74HC4538AFT
	Q6888,Q6889		2SA1586
	Q6885,Q6886		2SC4116
	Q6884,Q6887		RN1303
	Q6881		RN1902
	Q6882		RN2303
	Q6880		SM6K2
	D6880,D6881		1SS302
	D6808		1SS355
	D6806,D6807,D6884		DAN202U
	D6883		UDZS6R8(B)
COILS AND FILTERS			
	F6881	EMI FILTER	CCG1162
CAPACITORS			
	C6802,C6849,C6851 (10/6.3)		ACG7046
	C6880,C6882,C6884,C6886		CCSRCH101J50
	C6888,C6889,C6892,C6895,C6896		CCSRCH101J50
	C6899-C6902,C6905,C6906,C6915		CCSRCH101J50
	C6917		CCSRCH101J50
	C6927,C6928		CCSRCH221J50
	C6921,C6922		CEHVKW101M6R3
	C6911		CEHVKW220M6R3

Mark	No.	Description	Part No.
	C6913		CKSRYB104K16
	C6920		CKSRYB473K16
	C6831,C6848,C6856,C6857,C6881		CKSSYF104Z16
	C6883,C6885,C6887,C6890,C6891		CKSSYF104Z16
	C6893,C6894,C6897,C6898		CKSSYF104Z16
	C6903,C6904,C6907-C6910,C6912		CKSSYF104Z16
	C6916,C6923-C6926		CKSSYF104Z16
	C6854,C6855 (10uF/16V)		DCH1165
RESISTORS			
	R6881-R6883,R6885,R6892,R6896		RAB4CQ101J
	R6901,R6904		RAB4CQ101J
	R6859		RS1/16S0R0J
	R6939,R6940		RS1/16S104J
	R6832,R6833		RS1/16S222J
	R6889		RS1/16S3900F
	R6915		RS1/16S3901F
	R6872		RS1/16S473J
	Other Resistors		RS1/16SS###J
OTHERS			
	JA6881	HDMI CONNECTOR	AKP1232
CAPACITORS			
	C6853		CCSRCH470J50
RESISTORS			
	R6826		RAB4CQ101J
	R6834,R6836,R6944,R6947-R6950		RAB4CQ103J
	R6835,R6839,R6937,R6938		RAB4CQ470J
	Other Resistors		RS1/16SS###J
[ROZ BLOCK]			
SEMICONDUCTORS			
	IC6951		PD6435A
	Q6951		RN1303
CAPACITORS			
	C6959,C6960		CCSRCH150J50
	C6951		CEHVKW101M6R3
	C6952-C6954,C6956-C6958		CKSSYF104Z16
	C6961,C6962,C6964-C6968		CKSSYF104Z16
RESISTORS			
	R6951-R6953,R6956-R6962,R6966		RAB4CQ100J
	R6968,R6972		RAB4CQ100J
	R6945,R6946,R6988		RAB4CQ103J
	Other Resistors		RS1/16SS###J
OTHERS			
	X6951	CERAMIC RESONATOR	ASS1169
RESISTORS			
	Other Resistors		RS1/16SS###J
[CELIA BLOCK]			
SEMICONDUCTORS			
	IC7001,IC7002		HY57V643220CT-7
	IC7004		PE5362A
	IC7003		TC74LCX125FT
COILS AND FILTERS			
	F7001,F7002	EMI FILTER	CCG1162

Mark	No.	Description	Part No.
	CAPACITORS		
	C7031 (10/6.3)		ACG7046
	C7029,C7041 (330uF/6.3V)		ACH1365
	C7064		CCSRCH100D50
	C7025,C7066,C7067		CCSRCH221J50
	C7001-C7024,C7026-C7028		CKSSYF104Z16
	C7032-C7040,C7042-C7063		CKSSYF104Z16
	RESISTORS		
	R7013-R7018,R7030		RAB4CQ220J
	R7007		RS1/16S220J
	Other Resistors		RS1/16SS###J
	OTHERS		
	X7001	CRYSTAL OSCILLATOR (85MHz)	ASS1174
	[MIKE BLOCK]		
	SEMICONDUCTORS		
	IC7152		MBM29PL3200BE70PFV
	IC7101		PD5855A
	COILS AND FILTERS		
	F7101,F7102	EMI FILTER	CCG1162
	CAPACITORS		
	C7103,C7120 (330uF/6.3V)		ACH1365
	C7101,C7102,C7104-C7119		CKSSYF104Z16
	C7121-C7135,C7152,C7158-C7162		CKSSYF104Z16
	RESISTORS		
	R7113,R7115,R7116,R7119,R7121		RAB4CQ101J
	R7123,R7124		RAB4CQ101J
	R7102,R7105-R7108,R7110,R7111		RAB4CQ330J
	Other Resistors		RS1/16SS###J
	SEMICONDUCTORS		
	IC7151		MBM29PL3200BE70PFV
	CAPACITORS		
	C7151,C7153-C7157		CKSSYF104Z16
	RESISTORS		
	Other Resistors		RS1/16SS###J
	[MAIN UCOM BLOCK]		
	SEMICONDUCTORS		
	IC7205		BR24L64F-W
	IC7207		MB91F355APMTGE1
	IC7201		MM1522XU
	IC7209		NJM12904V
	IC7211		PQ20WZ11
	IC7210		PST3612UR
	IC7203,IC7206		PST3628UR
	IC7202		TC74VHC125FT
	Q7203		2SA1586
	Q7201		2SJ461A
	Q7202		HN1C01FU
	Q7206,Q7207		RN1902
	D7201,D7202		1SS355
	D7203		SML-311UT
	D7204		UDZS2R7(B)

Mark	No.	Description	Part No.
	CAPACITORS		
	C7244		CCSRCH100D50
	C7231		CCSRCH102J50
	C7243,C7245		CCSRCH221J50
	C7241,C7242,C7248,C7249		CCSRCH470J50
	C7213,C7218		CCSRCH7R0D50
	C7205		CEHVKW101M6R3
	C7201,C7217,C7236,C7239,C7252		CKSRYB103K50
	C7226,C7237		CKSRYB104K16
	C7216		CKSRYB472K50
	C7209-C7212,C7214,C7215,C7219		CKSSYF104Z16
	C7221-C7225,C7227-C7229		CKSSYF104Z16
	C7232-C7234,C7238,C7240		CKSSYF104Z16
	C7246,C7247,C7253 (10uF/16V)		DCH1165
	RESISTORS		
	R7221,R7229,R7241,R7248-R7250		RAB4CQ101J
	R7201		RAB4CQ472J
	R7244,R7245,R7275,R7286,R7287		RS1/16S0R0J
	R7290,R7295-R7306		RS1/16S0R0J
	R7269		RS1/16S101J
	R7278		RS1/16S2201F
	R7215		RS1/16S223J
	R7279		RS1/16S4700F
	R7227,R7260		RS1/16S473J
	R7224		RS1/16S682J
	R7280		RS1/16S7500F
	R7277		RS1/16S8201F
	Other Resistors		RS1/16SS###J
	OTHERS		
	CN7203	3P CONNECTOR	AKM1213
	CN7201	PLUG 8-P	AKM1225
	CN7202	3P PH CONNECTOR	AKM1274
	X7201	CERAMIC RESONATOR	ASS1170
	CAPACITORS		
	C7258-C7261		CCSRCH470J50
	C7256,C7257		CKSRYB103K50
	RESISTORS		
	Other Resistors		RS1/16SS###J
	[MR IFBLOCK] [REGLATORBLOCK]		
	SEMICONDUCTORS		
	IC7453		BA33BC0WFP
	IC7454		BA50BC0WFP
	IC7456		NCP1117DT15
	IC7401		SII170BCLG64
	IC7404		TC74VCX08FT
	IC7403		TC74VCX574FT
	IC7451		TC74VHC08FT
	Q7406		2SA1586
	Q7405		HN1C01FU
	Q7403,Q7407,Q7408		RN1303
	Q7451		RN1901
	Q7401		RN1902
	Q7402,Q7404,Q7409		RN2303
	D7401-D7407,D7457-D7459		1SS355
	COILS AND FILTERS		

Mark	No.	Description	Part No.
	F7405-F7408	EMI FILTER	ATF1209
	L7401	(3.3uH)	ATH1162
	F7401-F7404	EMI FILTER	CCG1162

CAPACITORS

Mark	No.	Description	Part No.
	C7416,C7421,C7424,C7484	(10/6.3)	ACG7046
	C7474	(330uF/6.3V)	ACH1365
	C7401,C7402		CCSRCH100D50
	C7475,C7477-C7482		CCSRCH221J50
	C7403,C7404,C7406,C7407		CCSRCH820J50
	C7410,C7411,C7413,C7414,C7419		CCSRCH820J50
	C7456,C7460,C7465		CEHVKW101M6R3
	C7405,C7412,C7415,C7417,C7418		CKSSYF104Z16
	C7420,C7423,C7451,C7452		CKSSYF104Z16
	C7454,C7455,C7458,C7459,C7466		CKSSYF104Z16
	C7469,C7473,C7476		CKSSYF104Z16
	C7453,C7457		DCH1165

RESISTORS

Mark	No.	Description	Part No.
	R7425,R7449,R7451,R7452,R7454		RAB4CQ101J
	R7481,R7497-R7499		RAB4CQ101J
	R7453		RAB4CQ103J
	R7440,R7441,R7443		RS1/16S0R0J
	R7417,R7418,R7429,R7431		RS1/16S111J
	R7428,R7430		RS1/16S272J
	R7410		RS1/16S5100F
	R7456		RS1LMF1R5J
	R7455		RS2LMF4R7J
	Other Resistors		RS1/16SS###J

OTHERS

Mark	No.	Description	Part No.
	CN7454,CN7455	50P CONNECTER	AKM1201
	CN7453	PLUG 15-P	AKM1232
	CN7402	16P FFC CONNECTOR	AKM1234
	CN7451	PH 15P CONNECTOR	AKM1301
	CN7401	DVI SOCKET (24P)	AKP1250

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC7452		TC74VHC126FT

CAPACITORS

Mark	No.	Description	Part No.
	C7137,C7485,C7486		CCSRCH470J50
	C7068,C7471		CKSSYF104Z16

RESISTORS

Mark	No.	Description	Part No.
	R7477		RAB4CQ101J
	R7384		RS1/16S332J
	Other Resistors		RS1/16SS###J

B AV BOARD ASSY (AWZ6947)

[TUNER BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC7502		MSP3417G
	IC7501		TDA9818TS
	Q7503,Q7504,Q7506,Q7513,Q7522		2SA1586
	Q7524,Q7527,Q7528,Q7537		2SA1586
	Q7511,Q7517		2SC4082
	Q7501,Q7502,Q7505,Q7509,Q7512		2SC4116
	Q7514,Q7518-Q7520,Q7526,Q7530		2SC4116
	Q7533-Q7536,Q7538		2SC4116
	Q7516		2SC4213
	Q7532		DTA124EUA
	Q7531		DTC124EUA
	D7504		1SS355
	D7502,D7503		1SS356
	D7501		UDZS33(B)

COILS AND FILTERS

Mark	No.	Description	Part No.
	L7501		LCTAW100J2520
	L7512,L7513		LCTAW150J2520
	L7520		LCTAW270J2520
	L7514		LCTAW4R7J2520
	L7511		LCTAW8R2J2520
	L7519		LCTAWR22J2520
	L7516		LCTAWR27J2520
	L7505,L7507		LCTAWR68J2520
	F7511,F7512		VTF1080
	F7506	SAW FILTER	VTF1177
	F7503	SAW FILTER	VTF1179
	F7504	IFTRAP FILTER	VTF1180
	F7505	IFTRAP FILTER	VTF1181
	F7501	TRAP FILTER	VTF1183
	L7504	VCO COIL	VTL1164

CAPACITORS

Mark	No.	Description	Part No.
	C7507	(220uF/10V)	ACH1368
	C7552	(3.3uF/50V)	ACH1385
	C7509,C7525,C7549,C7591,C7599	(100uF/16V)	ACH1394
	C7564,C7573		CCSRCH102J50
	C7515		CCSRCH120J50
	C7568		CCSRCH121J50
	C7578		CCSRCH181J50
	C7601		CCSRCH220J50
	C7567		CCSRCH470J50
	C7556,C7558		CCSRCH560J50
	C7569		CCSRCH5R0C50
	C7576		CCSRCH680J50
	C7602		CCSRCH820J50
	C7570		CCSRCJ3R0C50
	C7501		CEHVKW100M50
	C7596		CEHVKW330M10
	C7542		CEHVKW470M16
	C7537,C7539		CKSQYB225K10
	C7502,C7520,C7522,C7523		CKSRYB102K50
	C7534,C7535,C7579,C7580		CKSRYB102K50
	C7514,C7524,C7528,C7536,C7545		CKSRYB103K50
	C7554,C7572		CKSRYB103K50
	C7541		CKSRYB104K16
	C7503		CKSRYB105K10
	C7559,C7561,C7588		CKSRYB152K50
	C7590		CKSRYB221K50
	C7504,C7505,C7526		CKSRYB222K50
	C7540		CKSRYB224K10
	C7518		CKSRYB332K50
	C7557,C7560,C7589		CKSRYB471K50
	C7563,C7571		CKSRYB472K50
	C7575		CKSRYF104Z16
	C7506,C7510,C7513,C7527,C7531		CKSRYF104Z50
	C7547,C7550,C7551,C7555,C7577		CKSRYF104Z50
	C7511,C7546,C7548,C7553,C7562		DCH1165
	C7587	(10uF/16V)	DCH1165

RESISTORS

Mark	No. Description	Part No.
	R7568	RD1/2LMF100J
	R7633	RS1/16S1201F
	R7524	RS1/16S2203F
	R7554	RS1/16S2700F
	R7544,R7552	RS1/16S2702F
	R7504	RS1/16S3302F
	R7655,R7656	RS1/16S5600F
	R7555	RS1/16S6800F
	VR7504	CCP1390
	VR7502	CCP1398
	Other Resistors	RS1/16S###J

OTHERS

	X7501 CERAMIC RESONATOR (18.432 MHz)	VSS1189
⚠	U7501 TV FRONTEND	AXF1133

[AV IO BLOCK]

SEMICONDUCTORS

	Q7706,Q7707,Q7710,Q7716	2SA1586
	Q7723,Q7724,Q7728,Q7740,Q7743	2SA1586
	Q7748	2SA1586
	Q7702,Q7703,Q7705,Q7712-Q7714	2SC4116
	Q7719,Q7720,Q7722,Q7726,Q7727	2SC4116
	Q7729-Q7731,Q7733,Q7735,Q7737	2SC4116
	Q7739,Q7742,Q7744,Q7746,Q7747	2SC4116
	Q7749,Q7758-Q7760	2SC4116
	Q7704,Q7721,Q7738,Q7741	DTA124EUA
	Q7754,Q7755,Q7757	DTA124EUA
	Q7715	DTC124EUA
	Q7717,Q7718,Q7725,Q7734,Q7736	HN1A01FU
	Q7701,Q7745	HN1C01FU
	D7709,D7710,D7715,D7722	1SS301
	D7705-D7708,D7713,D7714,D7716	1SS302
	D7719,D7720	1SS302
	D7703,D7721	1SS355
	D7701,D7711,D7717	UDZS12(B)
	D7702,D7712,D7718,D7723-D7735	UDZS9R1(B)

COILS AND FILTERS

	L7701,L7702,L7705,L7706	LCTAW1R0J2520
	L7709,L7710	LCTAW1R0J2520
	L7703,L7704,L7707,L7708	LCTAW560J2520
	L7711-L7714	LCTAW560J2520

SWITCHES AND RELAYS

	S7701	ASH1029

CAPACITORS

	C7706,C7709,C7728,C7730,C7743	CEHAT471M10
	C7756	CEHAT471M10
	C7716	CEVWNP470M10
	C7757	CKSRYB103K50
	C7701-C7703,C7714,C7719	CKSRYB105K10
	C7722-C7726,C7729,C7735,C7736	CKSRYB105K10
	C7740,C7746-C7749,C7752-C7754	CKSRYB105K10
	C7758,C7760,C7761	CKSRYB105K10
	C7773-C7780	CKSRYB222K50
	C7705,C7727,C7731,C7741,C7744	CKSRYF104Z50
	C7751	CKSRYF104Z50
	C7707,C7708,C7712,C7713,C7715	DCH1165
	C7717,C7718,C7720,C7734	DCH1165
	C7737,C7738,C7742,C7745,C7750	DCH1165

Mark	No. Description	Part No.
	C7755,C7759,C7762-C7764 (10uF/16V)	DCH1165

RESISTORS

	R7708,R7717,R7756,R7757,R7761	RS1/10S151J
	R7777,R7801,R7802,R7809,R7810	RS1/10S151J
	R7820,R7834	RS1/10S151J
	R7841	RS1/16S1001F
	R7842	RS1/16S1501F
	R7709,R7718,R7723,R7724,R7729	RS1/16S75R0F
	R7735,R7739,R7745,R7770,R7821	RS1/16S75R0F
	R7843,R7853,R7858	RS1/16S75R0F
	Other Resistors	RS1/16S###J

OTHERS

	JA7703 6P PIN JACK	AKB1300
⚠	JA7701 RGB CONNECTOR	AKP1265
⚠	JA7705 RGB CONNECTOR	AKP1266

[AV SW BLOCK]

SEMICONDUCTORS

	IC8005	AN15852A
	IC8002	CXA2069Q
	IC8004	NJM12904V
	IC8003	TC4052BFT
	Q8005,Q8006	2SA1586
	Q8021,Q8022,Q8025	2SC4116
	Q8023	DTA124EUA
	Q8024	DTC124EUA
	Q8011	HN1C01FU
	D8017	1SS355

CAPACITORS

	C8005,C8006,C8056 (100uF/16V)	ACH1394
	C8014 (22uF/16V)	ACH1400
	C8022,C8027	CCSRCH181J50
	C8057	CCSRCH270J50
	C8019,C8038	CCSRCH681J50
	C8002-C8004,C8008,C8009,C8016	CKSRYB105K10
	C8001,C8013,C8015,C8025,C8026	CKSRYF104Z50
	C8031-C8036,C8039,C8042-C8044	CKSRYF104Z50
	C8048,C8052,C8053,C8055,C8059	CKSRYF104Z50
	C8010,C8012,C8018,C8023,C8024	DCH1165
	C8028,C8037,C8040,C8041	DCH1165
	C8060,C8061 (10uF/16V)	DCH1165

RESISTORS

	Other Resistors	RS1/16S###J

[AV REG BLOCK]

SEMICONDUCTORS

	IC8505,IC8506	BA50BC0WFP
	IC8504	BA90BC0WFP
	IC8509	BD6522F
	IC8503	M5291FP
	IC8508	NCP1117DT25
	IC8507	NCP1117ST33
	Q8507,Q8550	2SC4116
	Q8515	DTC124EUA
	Q8511	TPC8003
	D8506,D8509-D8513	1SS355
	D8550	UDZS5R6(B)

COILS AND FILTERS

Mark	No.	Description	Part No.
	L8502	INDUCTOR	ATH1126
	F8501-F8504,F8506,F8508,F8510	EMI FILTER	CCG1162
⚠	L8505-L8507		LCTAWR22J2520

CAPACITORS

Mark	No.	Description	Part No.
	C8536	(47uF/16V)	ACH1371
	C8512	(100uF/16V)	ACH1394
	C8519		CCSRCH221J50
	C8506		CCSRCH560J50
	C8520		CEHAT101M50
	C8545,C8559		CEHAZL471M16
	C8563		CEHVKW100M16
	C8561		CEHVKW100M50
	C8517,C8523,C8528,C8533		CEHVKW101M6R3
	C8510,C8515,C8521,C8526,C8531		CEHVKW220M16
	C8565		CEHVKW220M16
	C8511,C8513,C8516,C8518,C8522		CKSRYB103K50
	C8524,C8527,C8529,C8530,C8532		CKSRYB103K50
	C8534,C8540,C8542,C8551,C8560		CKSRYB103K50
	C8562,C8564		CKSRYB103K50
	C8514		CKSRYB821K50
	C8505,C8539,C8541,C8550	(10uF/16V)	DCH1165

RESISTORS

Mark	No.	Description	Part No.
	R8508		ACN1164
	R8506,R8510,R8511,R8522,R8530		ACN1188
	R8533-R8535,R8560-R8563		ACN1188
	R8551		ACN1199
	R8550		RD1/2LMF181J
	R8509		RS1/16S1101F
	R8520		RS1/16S3302F
	R8528,R8531,R8543,R8545		RS1LMF1R0J
	R8525		RS1LMF3R3J
	R8554		RS3LMF121J
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN8651	PLUG(15P)	KM200NA15
	U8502	DD CON UNIT	AXY1090

[BOARD IF BLOCK]

CAPACITORS

Mark	No.	Description	Part No.
	C8656-C8660		CKSRYB105K10
	C8653-C8655,C8661-C8663	(10uF/16V)	DCH1165

RESISTORS

Mark	No.	Description	Part No.
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN8652-CN8654	50P CONNECTER	AKM1201
	CN8658	12P FFCCONNECTOR	AKM1233

[UIF UCOM BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC8705		BR24L01AFJ-W
	IC8702		HD64F3687FP
	IC8703		PST9231N
	IC8701		TC74VHC08FT
	IC8704		TC7W126FU
	Q8703		DTA124EUA
	Q8702		DTC124EUA

CAPACITORS

Mark	No.	Description	Part No.
	C8711	(100uF/16V)	ACH1394
	C8706,C8707		CCSRCH180J50
	C8717,C8718		CCSRCH470J50
	C8709		CKSRYB472K50
	C8701-C8705,C8708,C8712,C8713		CKSRYF104Z50
	C8716	(10uF/16V)	DCH1165

RESISTORS

Mark	No.	Description	Part No.
	R8719		RAB4C101J
	R8702,R8704,R8720,R8745		RAB4C103J
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN8701	PLUG 8-P	AKM1225
	X8702	CERAMIC RESONATOR	ASS1168
	X8701	CRYSTAL OSCILLATOR (32.768kHz)	ASS1172

[TELETEXT BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC8901		PST9230N
	IC8904		SDA6000
	IC8907		TC7SH04FU
	IC8902		TC7W126FU
	Q8904-Q8906		2SA1586
	Q8909		2SC4116
	Q8911		2SC5729
	Q8913		DTA124EUA
	Q8910,Q8914		DTC124EUA
	Q8907,Q8908		RN1902
	D8902		UDZS3R0(B)
	D8901		UDZS3R9(B)

CAPACITORS

Mark	No.	Description	Part No.
	C8916		CCSRCH180J50
	C8917		CCSRCH220J50
	C8941,C8942,C8944-C8949		CCSRCH560J50
	C8952-C8956		CCSRCH560J50
	C8904,C8940		CKSRYB102K50
	C8903		CKSRYB103K50
	C8926		CKSRYB104K16
	C8901		CKSRYB471K50
	C8902,C8909-C8911,C8914,C8915		CKSRYF104Z50
	C8918-C8920,C8923-C8925		CKSRYF104Z50
	C8927,C8928,C8930-C8936		CKSRYF104Z50
	C8937-C8939	(10uF/16V)	DCH1165

RESISTORS

Mark	No.	Description	Part No.
	R8891,R8893,R8894		RAB4C100J
	R8905-R8907,R8922,R8960,R8991		RAB4C101J
	R8896-R8899		RAB4C150J
	R8999-R9001		RS1/16S1801F
	R8996-R8998		RS1/16S9101F
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN8901	PLUG 8-P	AKM1225

Mark	No.	Description	Part No.
	K 8905	TEST PIN	AKX9002
	X8901	CRYSTAL OSCILLATOR	ASS1187

[MEMORY SW BLOCK]

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9104		K4S641632H-TC75
	IC9105		TC4051BF
	Q9102-Q9104,Q9106		2SA1586
	Q9101,Q9105		2SC5729
	Q9108		DTA124EUA
	Q9107		DTC124EUA
	D9101-D9104,D9106		1SS355
	D9105		UDZS12(B)

CAPACITORS

Mark	No.	Description	Part No.
	C9128,C9132-C9139		CCSRCH560J50
	C9117,C9131		CKSRYB474K10
	C9101,C9107-C9110,C9113,C9114		CKSRYF104Z50
	C9116,C9119,C9120,C9123		CKSRYF104Z50
	C9129,C9130		CKSRYF104Z50

RESISTORS

Mark	No.	Description	Part No.
	R9141-R9144		RAB4C470J
	Other Resistors		RS1/16S###J

F SR ASSY (AWZ6950)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9451		SP3232ECY
	IC9452		TC74VHC125FT

CAPACITORS

Mark	No.	Description	Part No.
	C9456,C9457		CEHVKW100M16
	C9451-C9455,C9460		CKSRYF104Z16

RESISTORS

Mark	No.	Description	Part No.
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	JA9451	9P D-SUB SOCKET	AKP1240
	CN9452	CONNECTOR	CKS3826

G FRONT ASSY (AWZ6952)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	D9509-D9511,D9517,D9518		UDZS9R1(B)

COILS AND FILTERS

Mark	No.	Description	Part No.
	L9503,L9504		LCTAW1R0J2520

CAPACITORS

Mark	No.	Description	Part No.
	C9505,C9506		CKSRYB103K50
	C9504		CKSRYB104K16
	C9507-C9510		CKSRYB105K10
	C9503		CKSRYB473K16
	C9516		CKSRYF104Z16
	C9515,C9523,C9534-C9536		DCH1165

RESISTORS

Mark	No.	Description	Part No.
	R9504,R9507,R9508		RS1/16S75R0F
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	JA9501	PIN JACK(3P)	AKB1303

Mark	No.	Description	Part No.
	CN9502	50P CONNECTER	AKM1201
	JA9502	4P MINIDIN SOCKET(S)	AKP1238

H LED ASSY (AWZ6954)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q9652		RN2902
	D9654		SML-310MT
	D9653		SML-311UT

CAPACITORS

Mark	No.	Description	Part No.
	C9651		CKSRYB103K50

RESISTORS

Mark	No.	Description	Part No.
	Other Resistors		RS1/16S###J

OTHERS

Mark	No.	Description	Part No.
	CN9651	7P PH CONNECTOR	AKM1293

6. ADJUSTMENT

1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
3. Use a stable AC power supply.

6.1 HOW TO ENTER SERVICE FACTORY MODE

■ Refer to the technical document (Service Know-How).

6.2 POSSIBLE CASES WHERE READJUSTMENT IS REQUIRED

■ When any of the following assemblies is replaced

POWER SUPPLY Unit	➡	No adjustment required
AV BOARD Assy	➡	No adjustment required
MR MAIN BOARD Assy	➡	No adjustment required
PC Card Unit	➡	No adjustment required
TUNER Board Assy	➡	No adjustment required
Other assemblies	➡	No adjustment required

■ When any part in the following assemblies is replaced

POWER SUPPLY Unit	➡	The assembly must be replaced as a unit, and no part replacement is allowed.
AV BOARD Assy	➡	If the front end (U7501) is replaced, adjustment is required.
MR MAIN BOARD Assy	➡	The assembly must be replaced as a unit, and no part replacement is allowed.
PC CARD Unit	➡	The assembly must be replaced as a unit, and no part replacement is allowed.
TUNER Board Assy	➡	The assembly must be replaced as a unit, and no part replacement is allowed.
Other assemblies	➡	No adjustment required

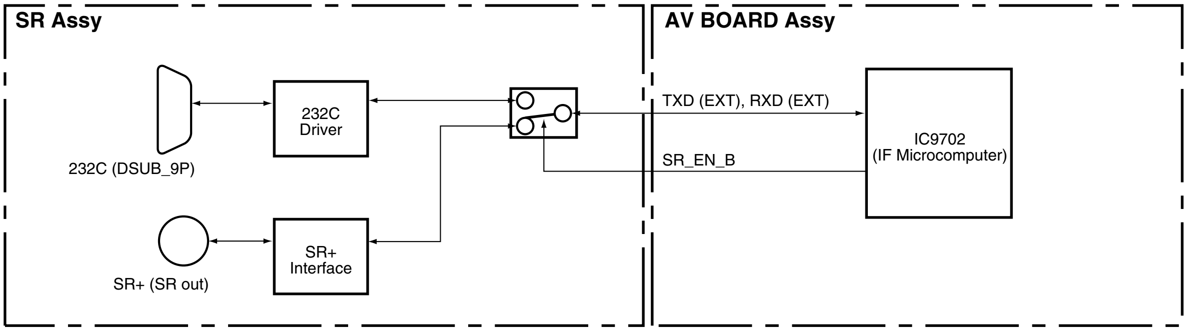
■ Adjustment items

① AFC Adjustment
② RF-AGC Adjustment
③ Video Level Adjustment

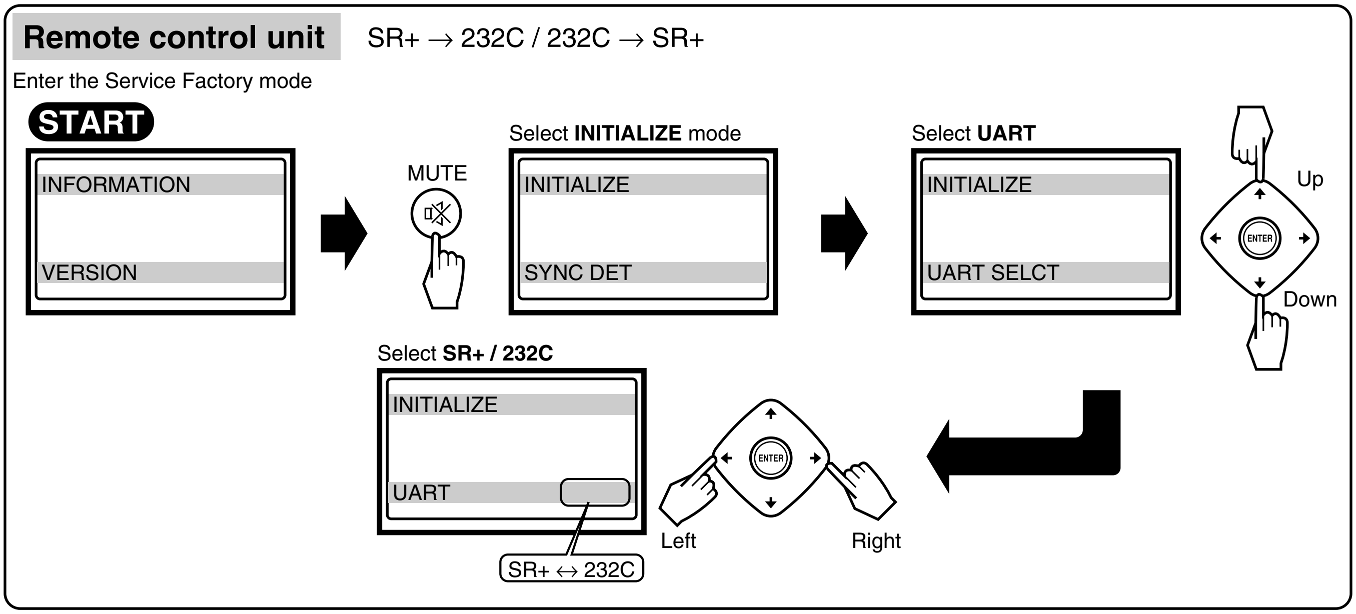
6.3 USING RS-232C COMMANDS

For the PDP-435HD and PDP-505HD series Plasma Displays, the circuitry is structured as shown in the diagram below to support the SR+ system. Controlling with either the SR+ system or RS-232C commands can be selected. As the SR+ system is selected at shipment, to control with RS-232C commands in servicing it is necessary to switch the paths. After servicing, be sure to return the setting to the SR+ system.

● Rough diagram of switching between SR+ and RS-232C


SR Assy
AV BOARD Assy
232C (DSUB_9P)
232C Driver
SR+ (SR out)
SR+ Interface
TXD (EXT), RXD (EXT)
SR_EN_B
IC9702 (IF Microcomputer)

● How to switch from SR+ to RS-232C


Remote control unit SR+ → 232C / 232C → SR+

Enter the Service Factory mode

Select **INITIALIZE** mode

Select **UART**

Select **SR+ / 232C**

START
INFORMATION
VERSION
MUTE
INITIALIZE
SYNC DET
INITIALIZE
UART SELCT
Up
ENTER
Down
INITIALIZE
UART
SR+ ↔ 232C
ENTER
Left
Right

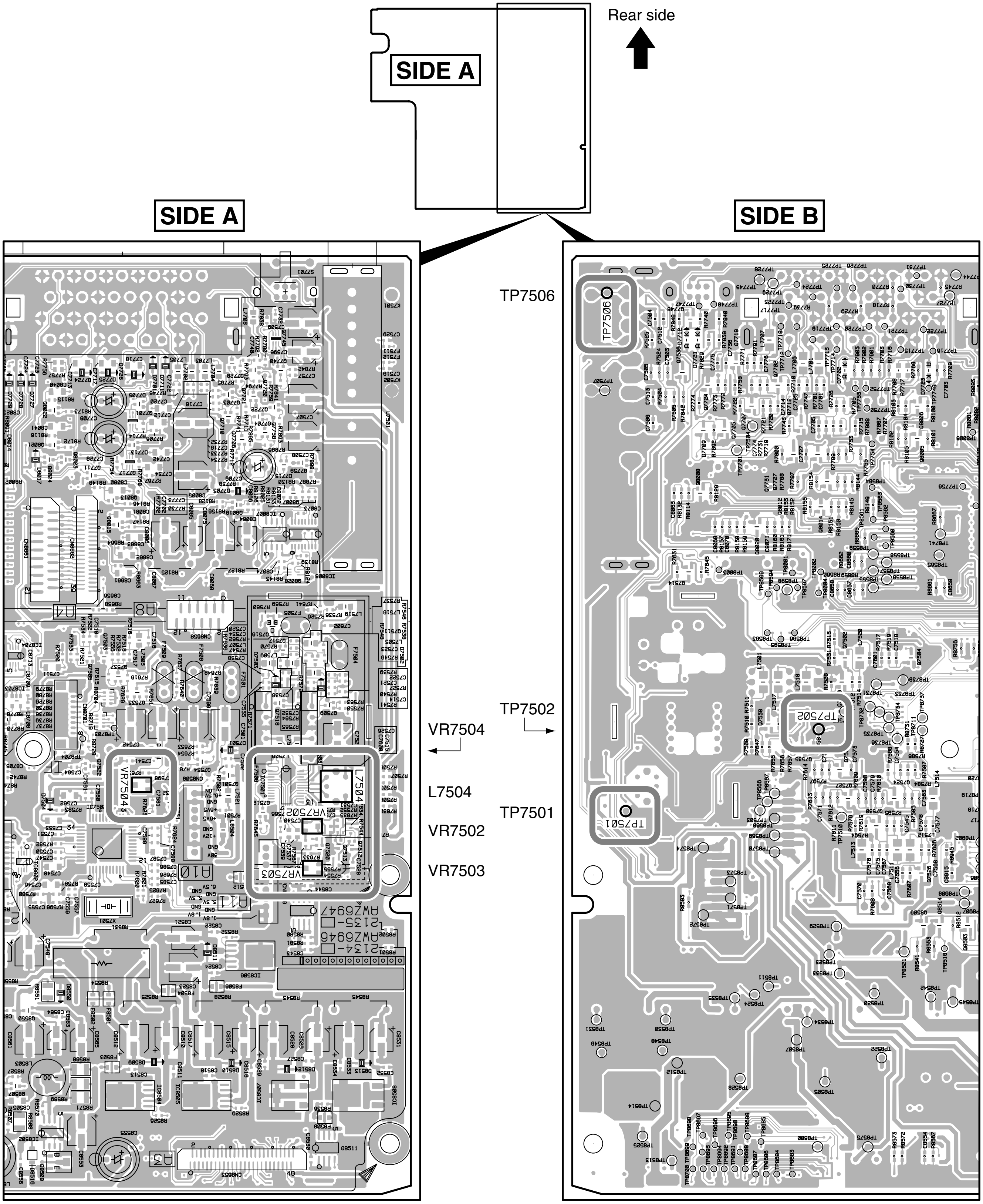
Tips: How to change the SR+/RS-232C setting without entering Service Factory mode
Hold the **VOLUME** ⊿+ or ⊿– key on the remote control unit pressed for 3-10 seconds during Standby mode.
Then within 3 seconds after the key is released, hold the **2-screen** ◑ key on the remote control unit pressed for 3-10 seconds.
Then within 3 seconds after the key is released, use the **SET** key on the remote control unit to set to RS-232C (the baud rate last selected is chosen) or the **HOME MENU** key to set to SR+.

6.4 ADJUSTMENT ITEMS

If readjustment is necessary because of adjustment error at shipment, perform adjustments as shown below.

● Adjustment Points

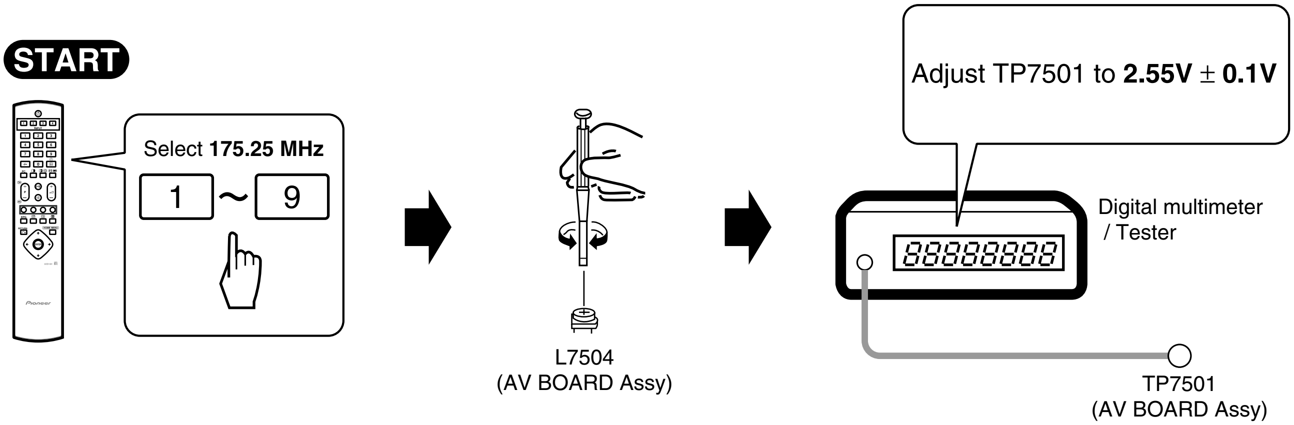
B AV BOARD ASSY


SIDE A
Rear side
SIDE A
SIDE B
TP7506
TP7502
VR7504
L7504
VR7502
VR7503
TP7501

① AFC Adjustment

Equipment : SG, Digital mutimeter / Tester
Condition : Input RF level 75dBμV
PAL-B/G
White bar 100%

START


Select **175.25 MHz**

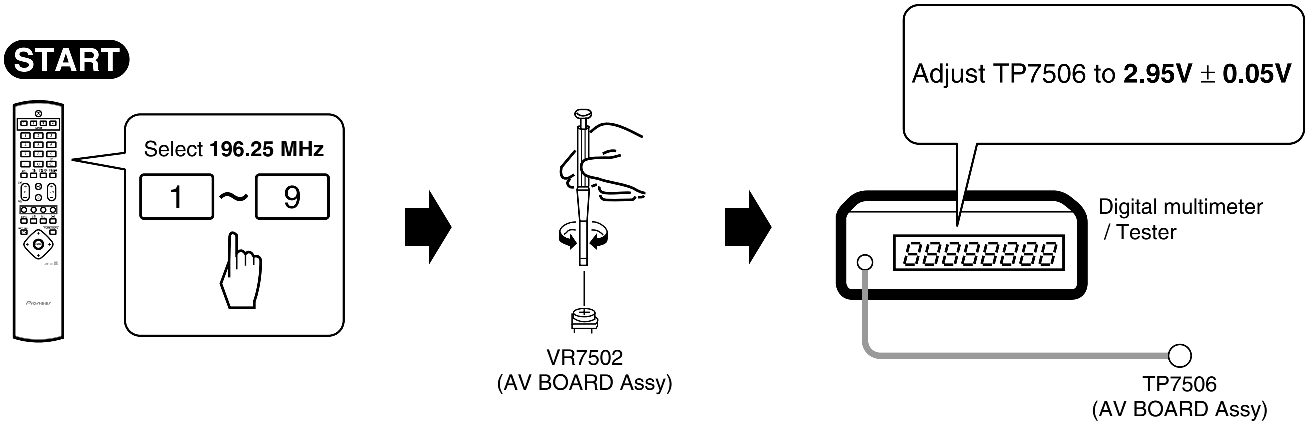
Adjust TP7501 to **2.55V** ± **0.1V**

1 ~ 9
L7504
(AV BOARD Assy)
Digital multimeter
/ Tester
88888888
TP7501
(AV BOARD Assy)

② RF-AGC Adjustment

Equipment : SG, Digital mutimeter / Tester
Condition : Input RF level 64dBμV ± 1dB
PAL-B/G
Multiburst

START

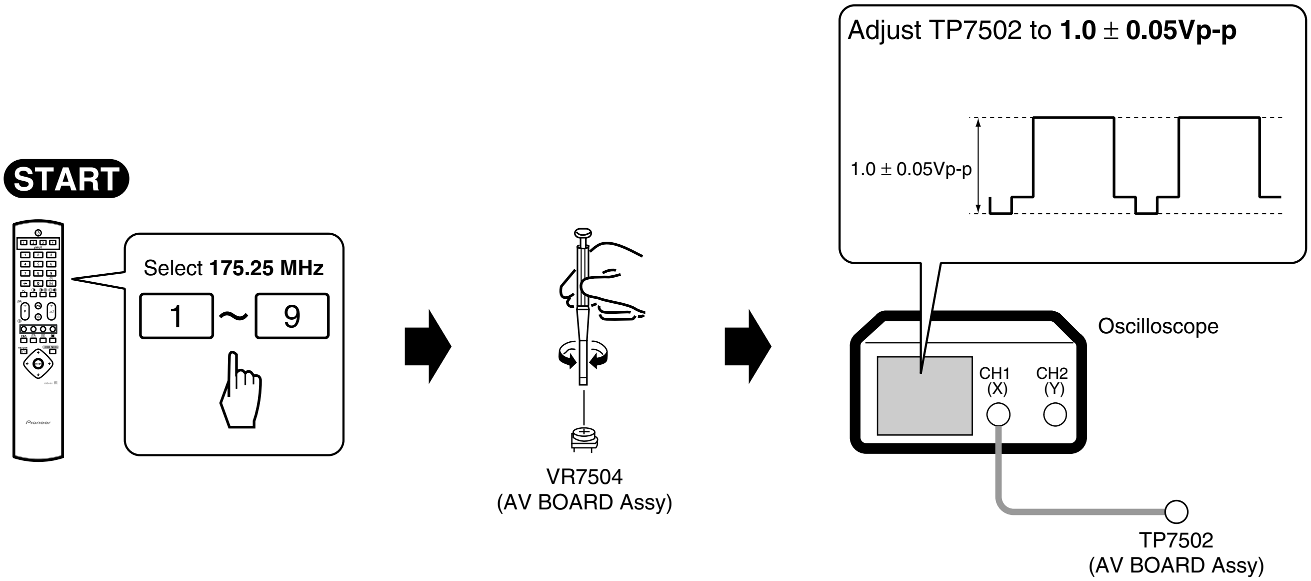

Select **196.25 MHz**

Adjust TP7506 to **2.95V** ± **0.05V**

1 ~ 9
VR7502
(AV BOARD Assy)
Digital multimeter
/ Tester
88888888
TP7506
(AV BOARD Assy)

③ Video Level Adjustment

Equipment : SG
Condition : Input RF level 75dBμV
PAL-B/G
White bar 100%



Adjust TP7502 to **1.0 ± 0.05Vp-p**

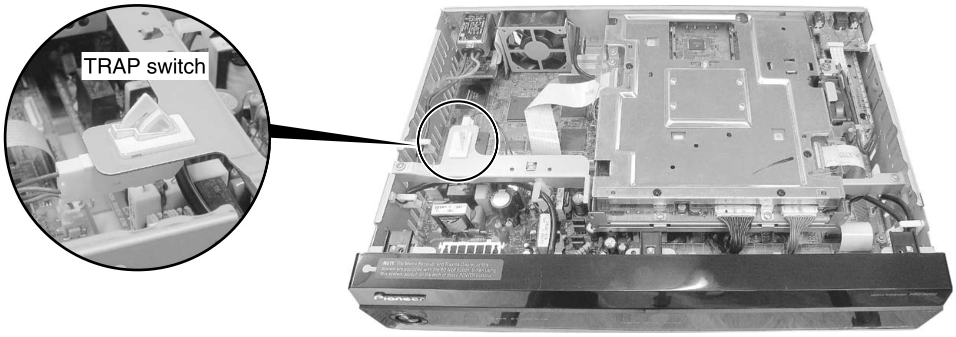
START
Select **175.25 MHz**
1 ~ 9
1.0 ± 0.05Vp-p
VR7504
(AV BOARD Assy)
Oscilloscope
CH1
(X)
CH2
(Y)
TP7502
(AV BOARD Assy)

6.5 TRAP SWITCH

● Outline and Notes

For video data transmission from the Media Receiver to the PDP-435HD and PDP-505HD-series Plasma Displays, digital signals are used. Therefore, this unit adopts the HDCP (High-bandwidth Digital Content Protection) system for copyright protection. This unit is also provided with a detection switch (TRAP switch) that will prohibit the unit from being turned on again "if the upper plate of the unit is accidentally opened," in order to prevent the panel technology from being leaked out.

The TRAP switch is disabled while the unit is turned off.
When performing internal diagnosis of the PDP, fix the switch to the OFF position using adhesive tape before turning on the unit. After servicing, be sure to remove the adhesive tape.



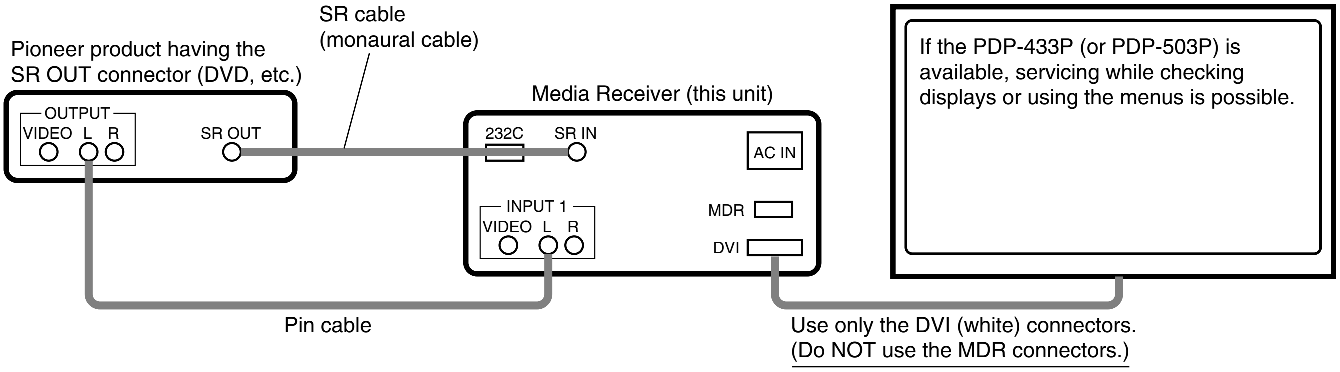
6.6 SERVICING USING ONLY THE MEDIA RECEIVER

For servicing of the PDP-435HD and PDP-505HD-series Plasma Display using only the Media Receiver, the following two methods can be used:

● Remote controlling using SR connections (Except PDP-R05FE)

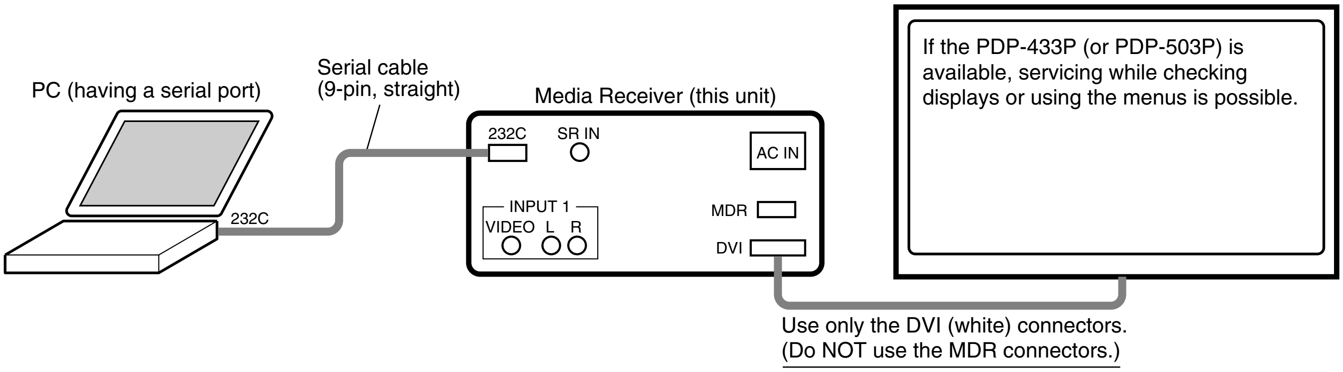
About connections

- Connect the SR OUT connector of a Pioneer product having that connector (a DVD in the following example) and the SR IN connector of the Media Receiver, using the SR cable. As the remote control sensor is not provided with the Media Receiver, this connection is required for using the remote control unit if the panel is not available. In this case, aim the remote control unit at the remote control sensor of the device (DVD in this case).
- Connect either the audio or the video output of the device (DVD in the example) and the corresponding audio or video input of the Media Receiver, using a cable with phono plugs. This connection is required in order to use ground in common with the SR cable, because with the SR cable connection the ground connection for signal reference is not available. In the example, the audio L channel is used, but the audio R channel or video can be used instead.
- If the plasma display for a previous model, such as the PDP-433P or PDP-503P, is available, servicing while checking displays or using the menus is possible. For this, connect only the DVI connectors (white) of the Media Receiver and the plasma display. The MDR connector of the Media Receiver must not be used, even though it has the same shape and number of pins, because signals assigned to the connectors differ. Using the MDR connector may damage the unit.


SR cable
(monaural cable)
Pioneer product having the
SR OUT connector (DVD, etc.)
OUTPUT
VIDEO L R
SR OUT
Media Receiver (this unit)
232C
SR IN
AC IN
INPUT 1
VIDEO L R
MDR
DVI
If the PDP-433P (or PDP-503P) is available, servicing while checking displays or using the menus is possible.
Pin cable
Use only the DVI (white) connectors.
(Do NOT use the MDR connectors.)

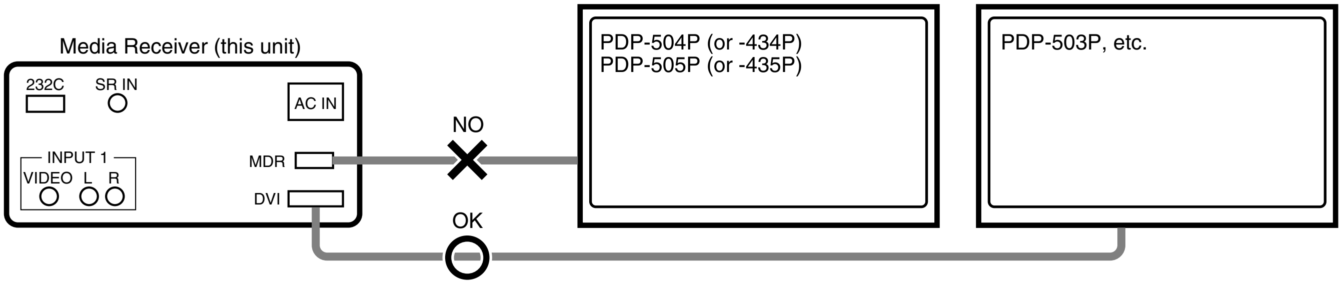
● RS-232C control using a PC

In this case the setting is RS-232C 38400bps, and the setting of "6.3. USING RS-232C COMMANDS" is not related.
Please set baud rate of PC in 38400bps.
For connection with the PC, use a straight cable.


PC (having a serial port)
Serial cable
(9-pin, straight)
232C
Media Receiver (this unit)
232C
SR IN
AC IN
INPUT 1
VIDEO L R
MDR
DVI
If the PDP-433P (or PDP-503P) is available, servicing while checking displays or using the menus is possible.
Use only the DVI (white) connectors.
(Do NOT use the MDR connectors.)

● Note on connection

If the MDR connector of the PDP-434HD or -504HD-series is used, it is considered that the PDP-434P (or -504P) is connected, and the Media Receiver operates on such precondition, **which may result in a failure of the Media Receiver. Be sure not to connect to the MDR connector.** (Do NOT use the MDR connector when servicing the Media Receiver alone.)


Media Receiver (this unit)
232C
SR IN
AC IN
INPUT 1
VIDEO L R
MDR
DVI
NO
OK
PDP-504P (or -434P)
PDP-505P (or -435P)
PDP-503P, etc.

6.7 SERVICE FACTORY MODE

To operate in Service Factory mode, use the supplied remote control unit.

How to enter Service Factory Mode

Prease refer to the technical documentation (Service Know-How). same as

Operation in Service Factory mode

● Functions whose settings are set to OFF

The settings for the following functions are set to OFF when Service Factory mode is entered (including when the "FAY" command is received):

- Two-screen operations (input function set on the main side is selected)
- P ZOOM
- STILL
- Detection of the TRAP switch (The log in the EEPROM is retained.)

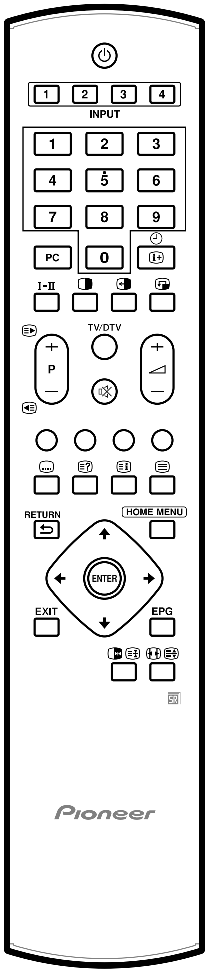
● User data

User data will be treated as follows:

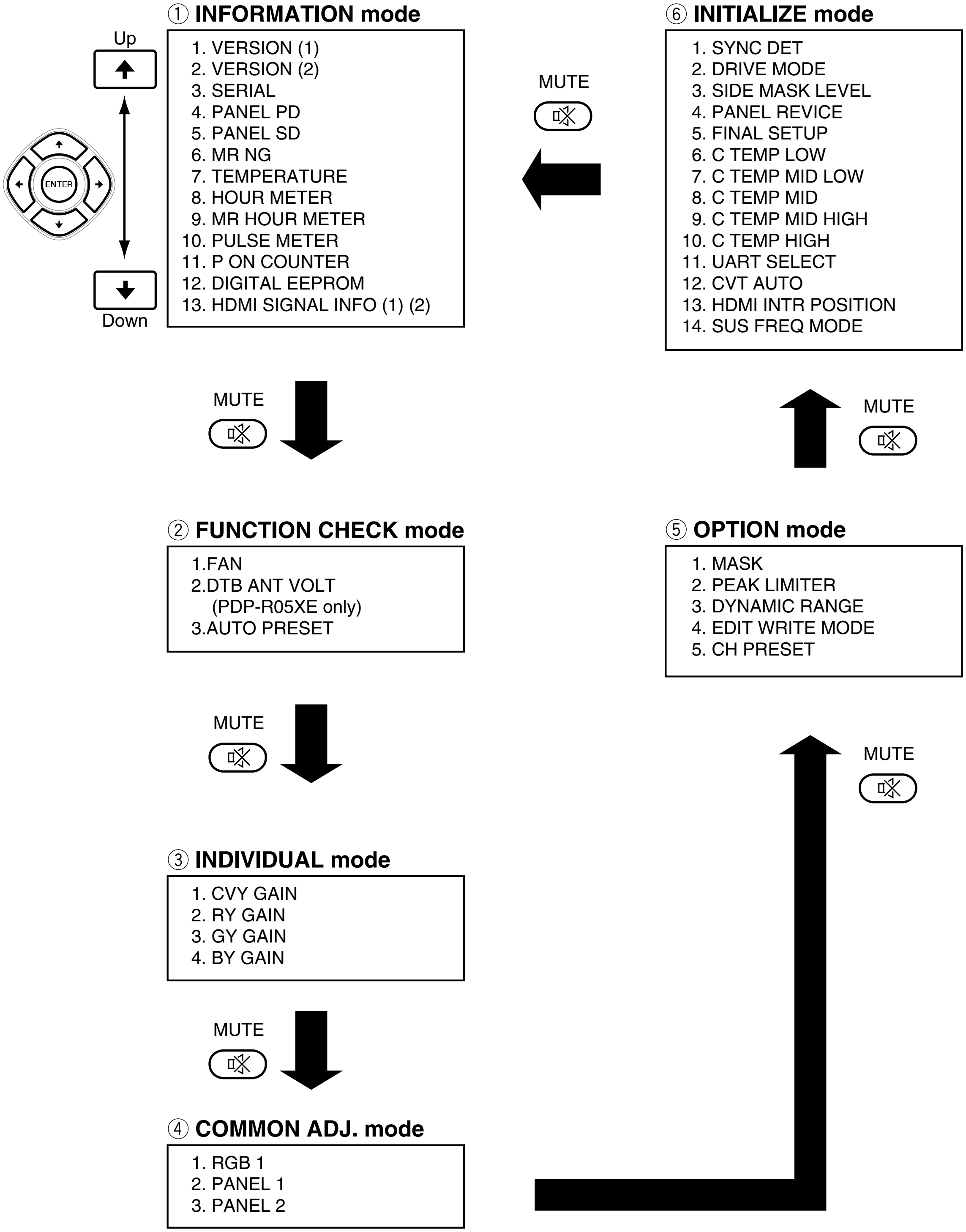
- User data on picture- and audio-quality adjustments are not reflected (data stored in memory will be retained).
- Data on screen position are reset to the default values (data stored in memory will be retained).

Remote control codes in Service Factory mode

SR Function	Main Function	Remarks
Muting	Switching the main items	Shifting to the next main item
DOWN	Switching the subtitled items	Shifting downward to the next subtitled item
UP	Switching the subtitled items	Shifting upward to the next upper layer
LEFT	Increasing the adjustment value	Increasing the adjustment value
RIGHT	Decreasing the adjustment value	Decreasing the adjustment value
SET	Switching layers	Shifting downward or upward to the next lower or upper layer
INPUT	Selecting input	Shifting the input to the next function
INPUTxx	Selecting input	Switching the input to xx
CH+	Increasing the channel number	Advancing a preset channel (effective when Function is set to TV)
CH-	Decreasing the channel number	Turning a preset channel backward (effective when Function is set to TV)
Numeric keys	Function: TV	Function: TV (previously selected channel number is selected)
POWER	Power OFF	Turning the power off
FACTORY	Factory OFF	Turning Service Factory mode off
MENU	Menu ON	Turning Service Factory mode off and Menu mode on



Changes of the Service Factory menus



① INFORMATION mode

1. VERSION (1)
2. VERSION (2)
3. SERIAL
4. PANEL PD
5. PANEL SD
6. MR NG
7. TEMPERATURE
8. HOUR METER
9. MR HOUR METER
10. PULSE METER
11. P ON COUNTER
12. DIGITAL EEPROM
13. HDMI SIGNAL INFO (1) (2)

② FUNCTION CHECK mode

1.FAN
2.DTB ANT VOLT
(PDP-R05XE only)
3.AUTO PRESET

③ INDIVIDUAL mode

1. CVY GAIN
2. RY GAIN
3. GY GAIN
4. BY GAIN

④ COMMON ADJ. mode

1. RGB 1
2. PANEL 1
3. PANEL 2

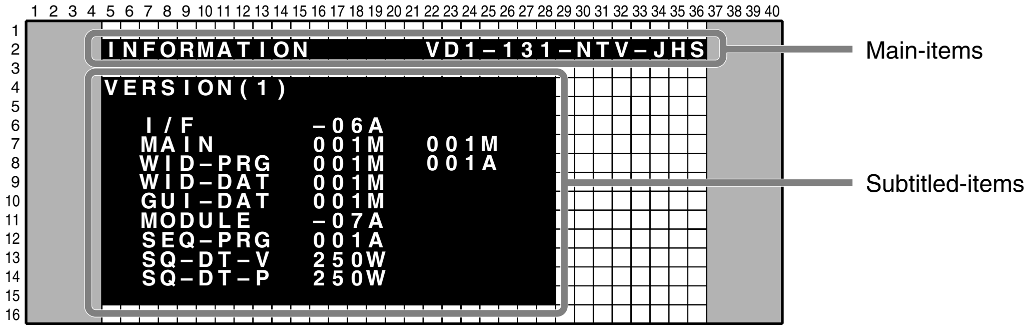
⑤ OPTION mode

1. MASK
2. PEAK LIMITER
3. DYNAMIC RANGE
4. EDIT WRITE MODE
5. CH PRESET

⑥ INITIALIZE mode

1. SYNC DET
2. DRIVE MODE
3. SIDE MASK LEVEL
4. PANEL REVICE
5. FINAL SETUP
6. C TEMP LOW
7. C TEMP MID LOW
8. C TEMP MID
9. C TEMP MID HIGH
10. C TEMP HIGH
11. UART SELECT
12. CVT AUTO
13. HDMI INTR POSITION
14. SUS FREQ MODE

Indications in Service Factory mode

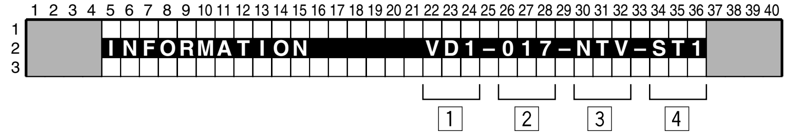


```
INFORMATION        VD1-131-NTV-JHS
VERSION(1)
  I/F        -06A
  MAIN       001M    001M
  WID-PRG    001M    001A
  WID-DAT    001M
  GUI-DAT    001M
  MODULE     -07A
  SEQ-PRG    001A
  SQ-DT-V    250W
  SQ-DT-P    250W
```

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Main-items
Subtitled-items

Main-item indications

Four parameters are displayed:



```
INFORMATION        VD1-017-NTV-ST1
```

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3
1
2
3
4

1 Input function

Input Functions	On-Screen Display
INPUT1	VD1
Analog	AIR
DTV	ARD
PC	PC

2 SIG mode and screen size

Note: See SIG-Mode Tables. (See next page.)

3 Color system and signal type

Color System and Signal Type		On-Screen Display
NTSC	Composite input/ S-connector input	NTV
PAL		PLV
SECAM		SCV
4.43NTSC		4NV
BLACK/WHITE		BWV
Y / CB / CR		CBR
Y / PB / PR		PBR
RGB		RGB
Digital video signal		DIG

4 Option (Destination, etc.)

Options	On-Screen Display
Advanced : PDP-R05XE	EHS
Standard : PDP-R05E	ETS
Basic : PDP-R05FE	EBS

● SIG-Mode Table

The signal mode is displayed in three characters:
First character: Resolution of the input signal (numerics for the video signals, and alphabetics for the PC signals)
Second character: Grouping of the V frequencies

SIG-Mode table for video signals (resolutions and V frequencies)

SIG-Mode	Signal Type	Vertical Frequency fv (Hz)	Horizontal Frequency fh (kHz)
13*	SDTV • 525i	60.000	15.750
21*	SDTV • 625i	50.000	15.625
33*	SDTV • 525p	60.000	31.500
41*	HDTV • 1125i	50.000	28.125
43*		60.000	33.750
51*	SDTV • 625p	50.000	31.250
61*	HDTV • 750p	50.000	37.500
63*		60.000	45.000

SIG-Mode table for PC signals (resolutions and V frequencies)

SIG-Mode	Signal Type	Vertical Frequency fv (Hz)	Horizontal Frequency fh (kHz)
A2*	720 × 400	56.000	24.825
A5*		70.087	31.469
A8*		85.050	37.861
B3*	640 × 480	59.940	31.469
B4*		66.666	35.000
B6*		72.809	37.861
B7*		75.000	37.500
B8*		85.000	43.300
C3*	852 × 480	60.000	31.680
D2*	800 × 600	56.250	35.1556
D3*		60.317	37.879
D6*		72.188	48.077
D7*		75.000	46.875
D8*		85.061	53.674
E7*	832 × 624	74.550	49.725
F3*	1024 × 768	60.004	48.363
F5*		70.069	56.476
F7*		75.029	60.023
F8*		84.997	68.677
G2*	1280 × 768	56.250	45.113
G3*		59.833	47.986
G5*		70.000	56.137

2nd Character	Reference V Frequency	Remarks
–	–	No signal
1	50	
2	56	
3	60	
4	66	
5	70	
6	For interpolation of 72-Hz area	For distinguishing between 70-Hz or 75-Hz area
7	75	
8	85	
9 (spare)	–	
?	–	Out of range

Third character: Selection of the screen size by the user is displayed.
(○: available, ×: not available)

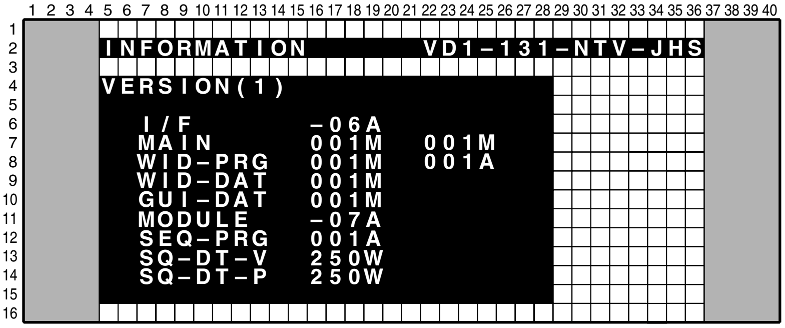
3rd Character	Description on GUI	VIDEO	PC	Remarks
0	DOT BY DOT	×	○	
1	4 : 3	○	○	
2	FULL (FULL1)	○	○	
3	ZOOM	○	×	
4	CINEMA	○	×	
5	WIDE	○	×	Indude WIDE-HD
6	FULL 14 : 9	○	×	
7	CINEMA 14 : 9	○	×	
8	FULL2	○	○	HDTV1035i
9	OVERSCAN	○	×	

① INFORMATION mode

● Operation items

No.	Function / Display	Content
1	VERSION (1)	The flash memory versions for each device are displayed. (common part)
2	VERSION (2)	The flash memory versions for each device are displayed. (individual part)
3	SERIAL	For displaying the serial number of the product (not used)
4	PANEL PD	Power-down generated on the panel side and its time of occurrence are displayed.
5	PANEL SD	Shutdown generated on the panel side and its time of occurrence are displayed.
6	MR NG	Power-down and/or shutdown generated on the Media Receiver side and their/its time of occurrence are displayed.
7	TEMPERATURE	Information on temperature is displayed.
8	HOUR METER	Cumulative power-on time to the panel is displayed.
9	MR HOUR METER	Cumulative power-on time to the Media Receiver is displayed.
10	PULSE METER	The pulse meter value on the panel side is displayed.
11	P ON COUNTER	The number of times the power to the panel was turned on is displayed.
12	DIGITAL EEPROM	The status of the backup data for the module microcomputer is displayed.
13	HDMI SIGNAL INFO. (1) (2)	The file information of HDMI series are displayed.

1. VERSION (1)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

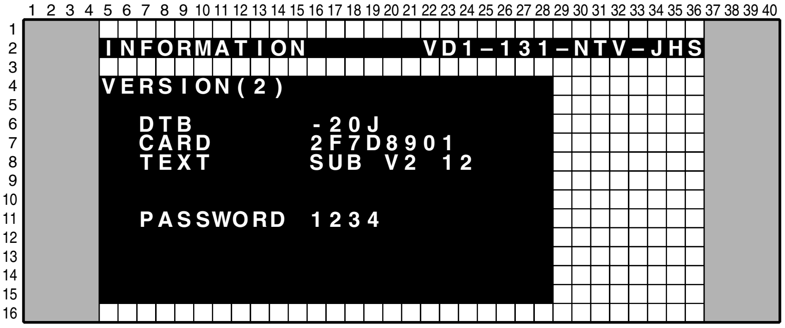
```
INFORMATION      VD1-131-NTV-JHS

VERSION(1)

   I/F        -06A
   MAIN       001M   001M
   WID-PRG    001M   001A
   WID-DAT    001M
   GUI-DAT    001M
   MODULE     -07A
   SEQ-PRG    001A
   SQ-DT-V    250W
   SQ-DT-P    250W
```

Flash memory of Device	On-Screen Display
User IF microcomputer (MR: IC8702)	I / F
Main microcomputer (MR: IC7207)	MAIN
Program for IC 3 (MR: IC7101)	WID–PRG
Enhanced data for IC 3 (MR: IC7101)	WID–DAT
GUI data for IC 3 (MR: IC7101)	GUI–DAT
Module microcomputer (for the PDP)	MODULE
Program for IC 4 (for the PDP)	SEQ–PRG
Sequence data for IC 4 Video	SQ–DT-V
Sequence data for IC 4 PC	SQ–DT-P

2. VERSION (2)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1
2
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9
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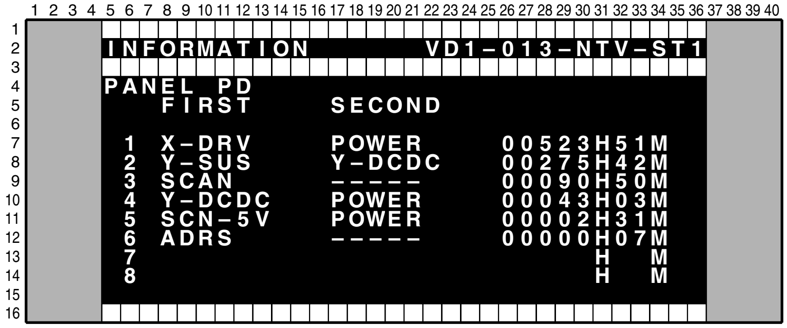
11
12
13
14
15
16

```
INFORMATION      VD1-131-NTV-JHS

VERSION(2)

   DTB        -20J
   CARD       2F7D8901
   TEXT       SUB V2 12


   PASSWORD   1234
```

Device	Name Display	Version Display	Remarks
DTV Software Version	DTB	4 character	PDP-R05XE only
PC Card Software Version	CARD	8 character	Except PDP-R05FE
Teletext ucom Software Version	TEXT	60 character	
USER Password	PASSWORD	4 character	

4. PANEL PD



```
INFORMATION          VD1-013-NTV-ST1

PANEL PD
    FIRST        SECOND

  1 X-DRV        POWER        00523H51M
  2 Y-SUS        Y-DCDC       00275H42M
  3 SCAN         -----        00090H50M
  4 Y-DCDC       POWER        00043H03M
  5 SCN-5V       POWER        00002H31M
  6 ADRS         -----        00000H07M
  7                                H  M
  8                                H  M
```

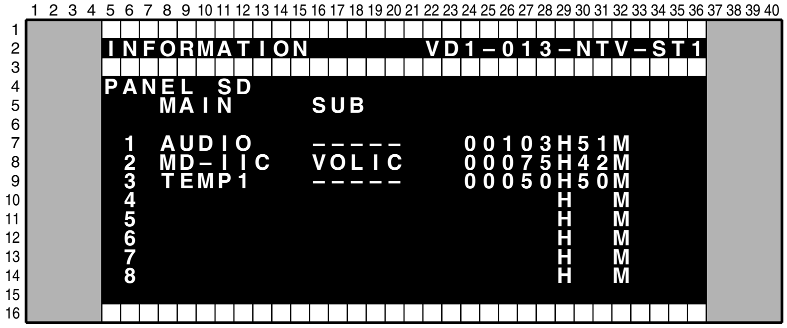
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Power-down information only on the panel side is displayed.

• Panel power-down information

No.	Type of Power-down	On-Screen Display	No.	Type of Power-down	On-Screen Display
1	No corresponding item	- - - - -	8	Power-down of the address system	ADRS
2	Power-down of the main power supply system	POWER	9	Power-down of the X-DRIVE circuitry	X-DRV
3	Power-down of the scanning system	SCAN	A	Power-down of the X-DC/DC converter	X-DCDC
4	Power-down in the path between the scanning system and 5-V power supply	SCN-5V	B	Power-down of the X-SUS system	X-SUS
5	Power-down of the Y-Drive system	Y-DRV	C	Power-down of the driving IC power supply system	D-DCDC
6	Power-down of the Y-DC/DC converter	Y-DCDC	D	Power-down of the driving stopped	IC4 (IC5401)
7	Power-down of the Y-SUS system	Y-SUS	F	Power-down point unidentified	UNKNOWN

5. PANEL SD



```
INFORMATION          VD1-013-NTV-ST1

PANEL SD
    MAIN       SUB

  1 AUDIO      -----     00103H51M
  2 MD-IIC     VOLIC     00075H42M
  3 TEMP1      -----     00050H50M
  4                           H  M
  5                           H  M
  6                           H  M
  7                           H  M
  8                           H  M
```

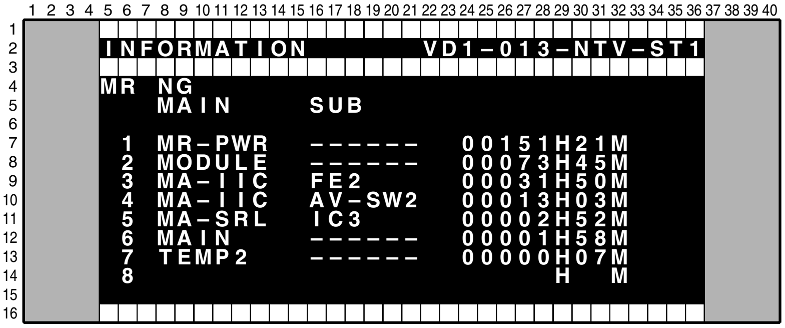
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

The shutdown log only on the panel side is displayed.

• Panel shutdown information

No.	Type of Shutdown	On-Screen Display (MAIN)	Remarks
1	Abnormality in IC 4 communication	IC4	
2	Abnormality in module microcomputer IIC communication	MD-IIC	Subcategories exist. (EROM4K : IC5206, EROM2K : IC402, VOLIC : IC3502)
3	Abnormality in RST2	RST2	
4	Abnormality in panel temperature	TEMP1	
5	Short-circuiting of the speakers	AUDIO	

6. MR NG



```
INFORMATION          VD1-013-NTV-ST1

MR  NG
    MAIN         SUB

 1  MR-PWR       ------     00151H21M
 2  MODULE       ------     00073H45M
 3  MA-IIC       FE2        00031H50M
 4  MA-IIC       AV-SW2     00013H03M
 5  MA-SRL       IC3        00002H52M
 6  MAIN         ------     00001H58M
 7  TEMP2        ------     00000H07M
 8                               H  M
```

Information on power-down and shutdown of the Media Receiver side is displayed.

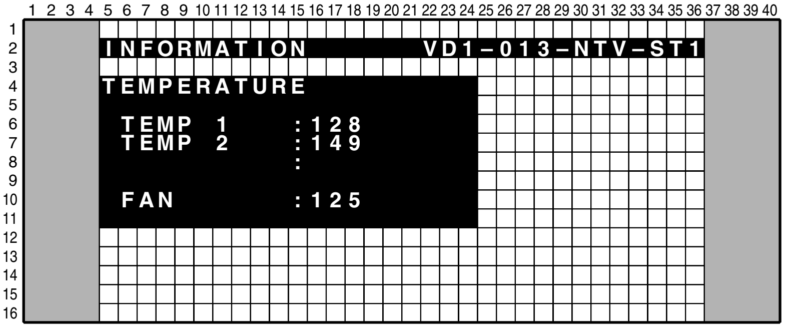
• Media Receiver NG information

No.	Type of Failure	On-Screen Display (MAIN)	Remarks
1	Abnormality in module microcomputer communication	MODULE	
2	Abnormality in 3-wire serial communication of the main microcomputer	MA-SRL	Subcategories exist.
3	Abnormality in main microcomputer IIC communication	MA-IIC	Subcategories exist.
4	Abnormality in main microcomputer communication	MAIN	
5	Abnormality in temperature of the Media Receiver	TEMP2	
6	Fan stopped.	FAN	
7	Abnormality in communication of the digital tuner	UART	Subcategories exist.
8	Abnormality in the ASIC power supply on the MR side	M-DCDC	

• Subcategory information

Type of Shutdown	Subcategory	Remarks
MA-SRL	IF microcomputer (IC8702), IC2 (IC7004), IC3 (IC7101)	
MA-IIC	MA-EEP (IC7205), IC1-M (IC6107), IC1-S (IC6255), HDMI1 (IC6801), HDMI2 (IC6881)*2, AD-M (IC6402), AD-S (IC6602), IC6 (IC6951), CCD (IC8903)*2, FE1 (U7501), FE2 (U7502)*2, AV-SW1 (IC8002), AV-SW2 (IC8005), TX-COM (IC8904)*3, MPX (IC7502)*3, TX-BSY(IC8904)*3, AV-EEP	*2 : U.S. model only *3 : Europe model and General area model
Interval UART Communication	PS/RST	No power, or reset status continued
	RETRY	The signal 0x02 (ready) has not been received.
	CD-COM	PC Card Module Communication
	CD-DEV	PC Card Module
	CD-RST	PC Card Reset NG

7. TEMPERATURE



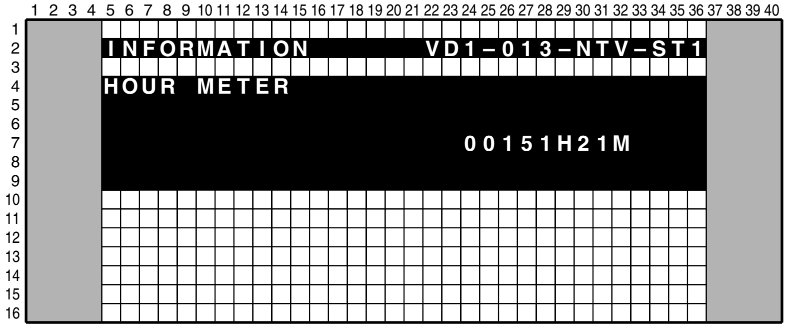
```
INFORMATION          VD1-013-NTV-ST1
TEMPERATURE

 TEMP  1     :128
 TEMP  2     :149
             :

 FAN         :125
```

TEMP1: The value read from the temperature sensor built into the panel is displayed in the range of 000-255.
Note: Refer to the service manual of the panel.

TEMP2: The value read from the temperature sensor built into the Media Receiver is displayed in the range of 000-255.
For reference, the approximate value for 60°C is 86 and for 35°C is 67.
Reference: When TEMP2 exceeds 100 (about 78°C), SD LED flash 11 times.

FAN: The value of the Fan output is displayed. At shipment, the output is controlled in 2 steps, and the value for strong output is set to about 131, and the value for weak output is set to about 93.

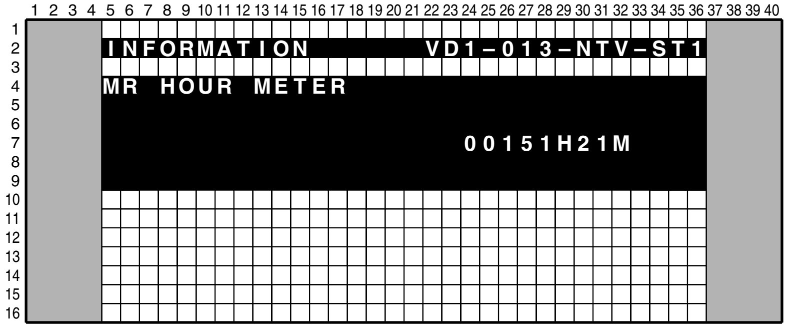
8. HOUR METER



```
INFORMATION       VD1-013-NTV-ST1
HOUR METER

                       00151H21M
```

The cumulative power-on time of the panel is displayed.

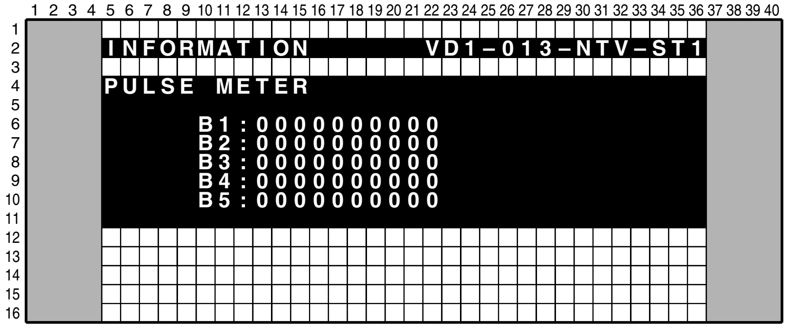
9. MR HOUR METER



```
INFORMATION       VD1-013-NTV-ST1
MR HOUR METER

                       00151H21M
```

The cumulative power-on time of the Media Receiver is displayed.

10. PULSE METER

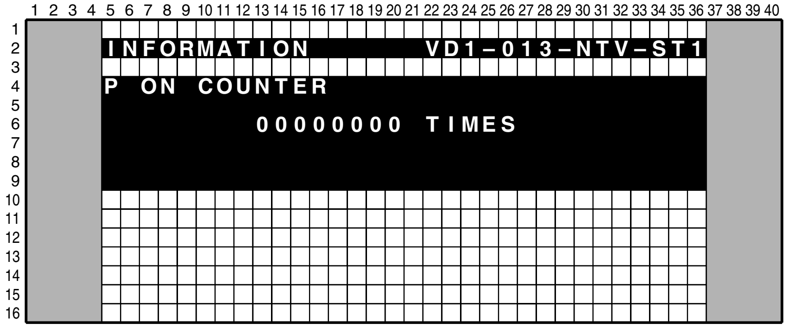


```
INFORMATION       VD1-013-NTV-ST1
PULSE METER

     B1:0000000000
     B2:0000000000
     B3:0000000000
     B4:0000000000
     B5:0000000000
```

The cumulative number of pulses of the panel is displayed.

Note : Dividing screen into sixteen times sixteen and counting five different locations on a screen.
Each item, it's counted total 3840 pixels (for 50 inch) or 3072 pixels (for 43 inch) discharging.
(1280/16 x 768/16 = 3840, 1204/16 x 768/16 = 3072)

11. P ON COUNTER



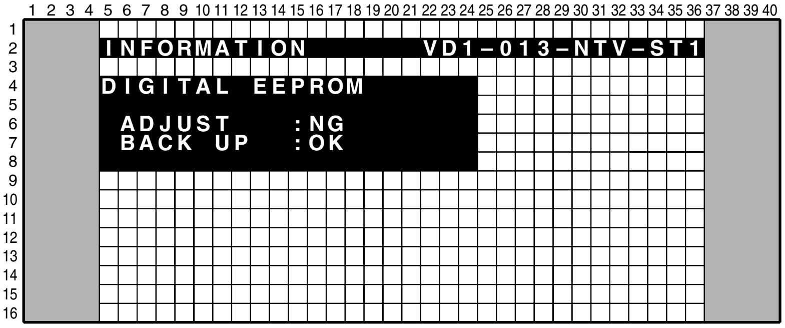
```
INFORMATION       VD1-013-NTV-ST1
P ON COUNTER
        00000000 TIMES
```

The cumulative number of times the panel was turned on is displayed.

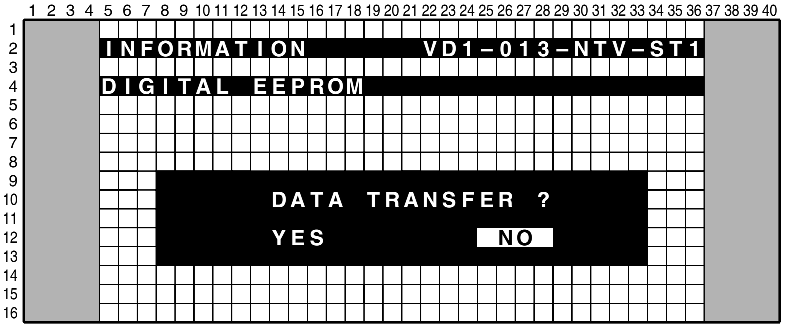
12. DIGITAL EEPROM

When the DIGITAL Assy of the PDP is to be replaced, the adjustment values in it can be temporarily stored in the ROM then be written on the new Assy after replacement.

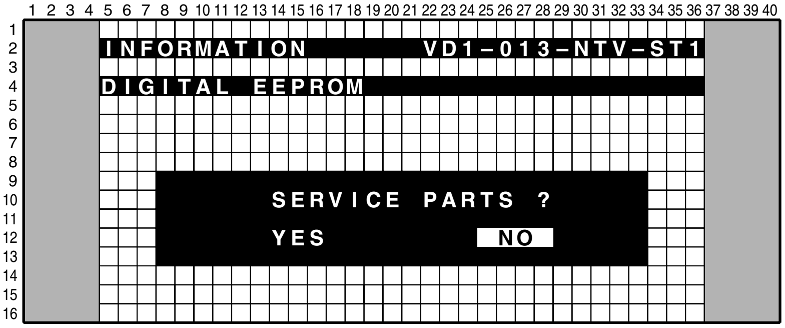
Whether adjustment has been made on the DIGITAL Assy of the PDP or not (i.e., in the state of a new service part), and whether the data on any adjustment values are retained in the backup ROM or not are displayed.


INFORMATION VD1–013–NTV–ST1
DIGITAL EEPROM
ADJUST :NG
BACK UP :OK

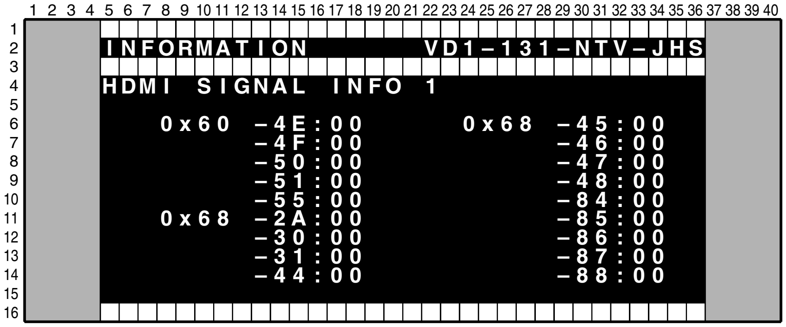
• Downloading the data from the backup ROM
(This must be performed after the DIGITAL Assy is replaced.)
To download the data from the backup ROM, press the ENTER key while the above screen is displayed. The display changes as shown below. Move the cursor to YES then press the ENTER key. The data in the backup ROM are downloaded into the new Assy.


INFORMATION VD1–013–NTV–ST1
DIGITAL EEPROM
DATA TRANSFER ?
YES NO

• Clearing the data in the ROM of the DIGITAL Assy
The display below is automatically displayed after either YES or NO is selected on the display shown above. Move the cursor to YES then press the ENTER key. Then all data on adjustment values in the ROM of the DIGITAL Assy are cleared.


INFORMATION VD1–013–NTV–ST1
DIGITAL EEPROM
SERVICE PARTS ?
YES NO

13. HDMI SIGNAL INFO


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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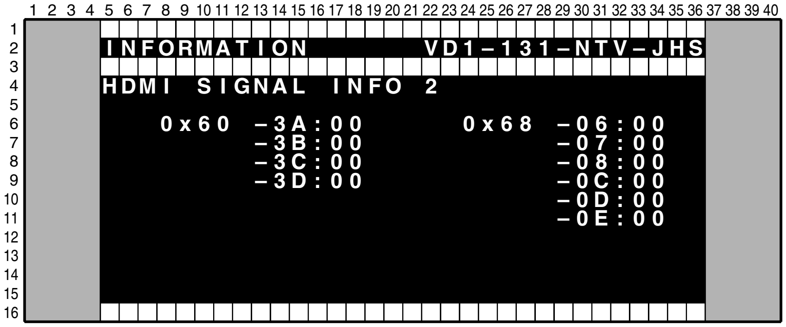
```
INFORMATION      VD1-131-NTV-JHS

HDMI SIGNAL INFO 1

   0x60 -4E:00     0x68 -45:00
        -4F:00          -46:00
        -50:00          -47:00
        -51:00          -48:00
        -55:00          -84:00
   0x68 -2A:00          -85:00
        -30:00          -86:00
        -31:00          -87:00
        -44:00          -88:00
```

Technical examination display
(Reading status registers in HDMI receiver and displaying them by HEX value.)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1
2
3
4
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10
11
12
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14
15
16

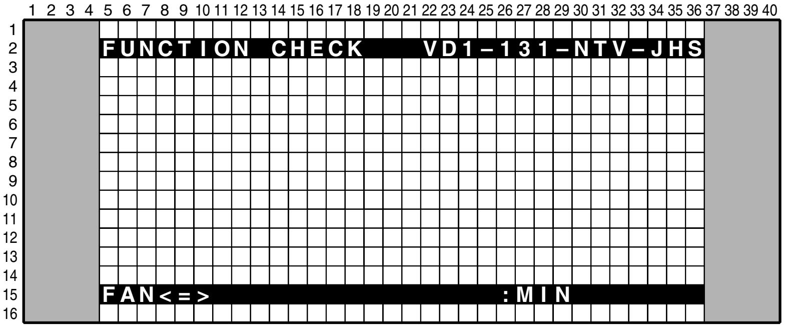
```
INFORMATION      VD1-131-NTV-JHS

HDMI SIGNAL INFO 2

   0x60 -3A:00     0x68 -06:00
        -3B:00          -07:00
        -3C:00          -08:00
        -3D:00          -0C:00
                        -0D:00
                        -0E:00
```

For technical discussion

② FUNCTION CHECK


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
FUNCTION CHECK VD1–131–NTV–JHS
FAN<=> :MIN

No last memory in this menu

No.	Display	Detail	Remarks	232C Command
1	FAN <=>	MIN ⇔ CNT ⇔ MAX		*1
2	DTB ANT VOLT <=>	OV ⇔ 5V		BAV + S00 : 0V S02 : 5V
3	AUTO PRESET <=>	NO ⇔ YES		

2.1 FAN

Controls FAN speed by force. (MIN : STOP, CNT : Follows movement specifications, MAX : High)
Temp sensor is working only displaying data value in service factory mode.
After getting off service factory mode, this function is set to normal automatically.

2.2 DTB ANT VOLT (PDP-R05XE only)

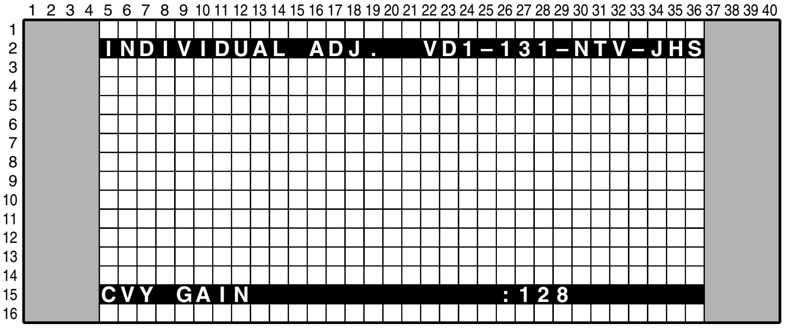
Change the power supply voltage for the digital tuner antenna.
This setting item is not recorded in the memory. Return in the user setting when finish the factory mode.

2.3 AUTO PRESET

Make the frequency range narrow for shipment check, and auto preset.

③ INDIVIDUAL ADJ. mode

AV Board


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1
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INDIVIDUAL ADJ. VD1–131–NTV–JHS

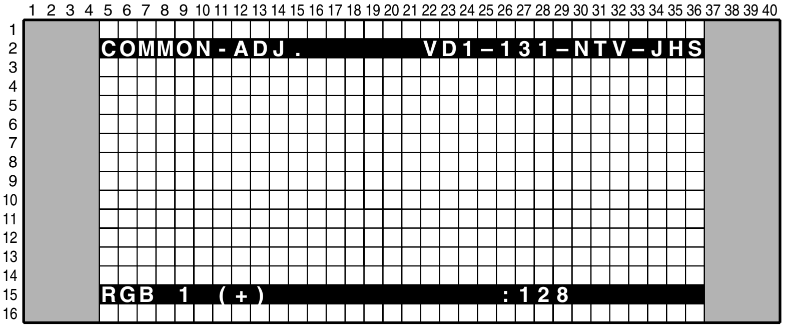
CVY GAIN :128

- Each signal course output from AV Board is revised to become equally.
- The main course and the assistant course are managed individually.
- At the time of signal input to go through IC1 side, AD side menu is done graydown by the kind of the signal.
  At the time of signal input to go through AD side, IC1 side menu is done graydown of alike.
  And at the time of digital signal input, all menu is done graydown.

No.	OSD Display	Function	Adjustment range	Initial value	Control device
1	CVY GAIN <=>	Input GAIN adjustment of CV/YC series	064-191	128	IC1 0x08B D6-D0
2	RY GAIN <=>	Input GAIN adjustment of component (Cr)/RGB(R) series	000-255	128	AD 0x08B D7-D0
3	GY GAIN <=>	Input AIN adjustment of component (Y)/RGB(G) series	000-255	128	AD 0x08B D7-D0
4	BY GAIN <=>	Input GAIN adjustmentof component (Cb)/RGB(B) series	000-255	128	AD 0x08B D7-D0

④ COMMON ADJ. mode

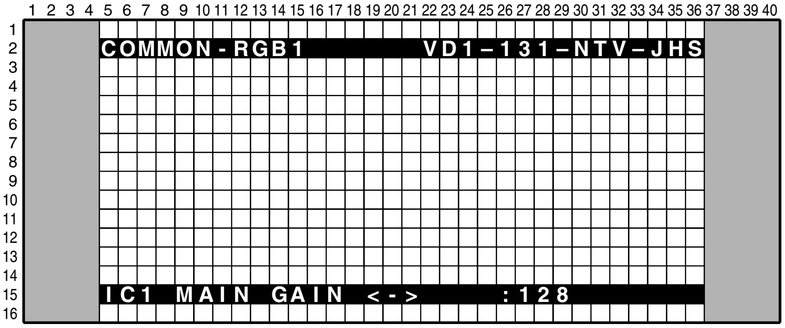
RGB1



COMMON-ADJ. VD1–131–NTV–JHS

RGB 1 (+) :128

- Adjustment of the course dispersion
- Adjustment the input every course so that IC1 and the AD-PLL output make it equal in Main Board.

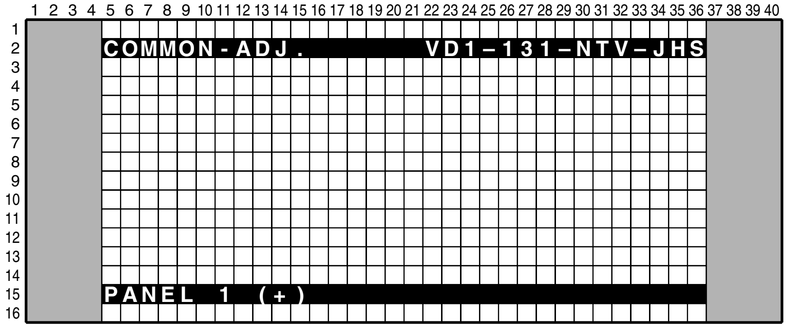


COMMON-RGB1 VD1–131–NTV–JHS

IC1 MAIN GAIN <-> :128

No.	OSD Display	Function	Adjustment range	Initial value	Control device
1	IC1 MAIN GAIN <=>	MAIN side IC1 input-GAIN adjustment	064-191	128	IC1(M) 0x08B D6-D0
2	IC1 MAIN OFFSET <=>	MAIN side IC1 input-OFFSET adjustment	064-191	128	IC1(M) 0x08C D6-D0
3	AD MAIN R GAIN <=>	MAIN side AD/PLL input-R GAIN adjustment	000-255	128	A/D(M) 0x08 D7-D0
4	AD MAIN G GAIN <=>	MAIN side AD/PLL input-G GAIN adjustment	000-255	128	A/D(M) 0x09 D7-D0
5	AD MAIN B GAIN <=>	MAIN side AD/PLL input-B GAIN adjustment	000-255	128	A/D(M) 0x0A D7-D0
6	AD MAIN R OFFSET <=>	MAIN side AD/PLL input-R OFFSET adjustment	064-191	128	A/D(M) 0x0B D7-D1
7	AD MAIN G OFFSET <=>	MAIN side AD/PLL input-G OFFSET adjustment	064-191	128	A/D(M) 0x0C D7-D1
8	AD MAIN B OFFSET <=>	MAIN side AD/PLL input-B OFFSET adjustment	064-191	128	A/D(M) 0x0D D7-D1
9	IC1 SUB GAIN <=>	SUB side IC1 input-GAIN adjustment	064-191	128	IC1(S) 0x08B D6-D0
10	IC1 SUB OFFSET <=>	SUB side IC1 input-OFFSET adjustment	064-191	128	IC1(S) 0x08C D6-D0
11	AD SUB R GAIN <=>	SUB side AD/PLL input-R GAIN adjustment	000-255	128	A/D(S) 0x08 D7-D0
12	AD SUB G GAIN <=>	SUB side AD/PLL input-G GAIN adjustment	000-255	128	A/D(S) 0x09 D7-D0
13	AD SUB B GAIN <=>	SUB side AD/PLL input-B GAIN adjustment	000-255	128	A/D(S) 0x0A D7-D0
14	AD SUB R OFFSET <=>	SUB side AD/PLL input-R OFFSET adjustment	064-191	128	A/D(S) 0x0B D7-D1
15	AD SUB G OFFSET <=>	SUB side AD/PLL input-G OFFSET adjustment	064-191	128	A/D(S) 0x0C D7-D1
16	AD SUB B OFFSET <=>	SUB side AD/PLL input-B OFFSET adjustment	064-191	128	A/D(S) 0x0D D7-D1

PANEL1

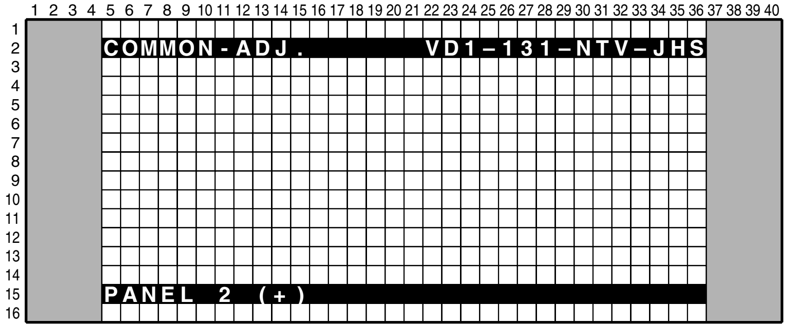


• related 232C command
XU1/XU2/XD1/XD2
YU1/YU2/YD1/YD2/YD3/YD4
VSU/VOF
GAJ/GA2

- Adjust Drive/Power supply series

No.	OSD Display	Function	Adjustment range	Corresponding RS-232C Command
1	X-SUS U1 <=>	X-SUS wave form Adjustment U1	124-132	XU1***
2	X-SUS U2 <=>	X-SUS wave form Adjustment U2	124-132	XU2***
3	X-SUS D1 <=>	X-SUS wave form Adjustment D1	124-132	XD1***
4	X-SUS D2 <=>	X-SUS wave form Adjustment D2	124-132	XD2***
5	Y-SUS U1 <=>	Y-SUS wave form Adjustment U1	124-132	YU1***
6	Y-SUS U2 <=>	Y-SUS wave form Adjustment U2	124-132	YU2***
7	Y-SUS D1 <=>	Y-SUS wave form Adjustment D1	124-132	YD1***
8	Y-SUS D2 <=>	Y-SUS wave form Adjustment D2	124-132	YD2***
9	Y-SUS D3 <=>	Y-SUS wave form Adjustment D3	124-132	YD3***
10	Y-SUS D4 <=>	Y-SUS wave form Adjustment D4	124-132	YD4***
11	VLT-SUS <=>	Vsus voltage adjustment	000-255	VSU***
12	VLT-OFS <=>	Vofs voltage adjustment	000-255	VOF***

PANEL2

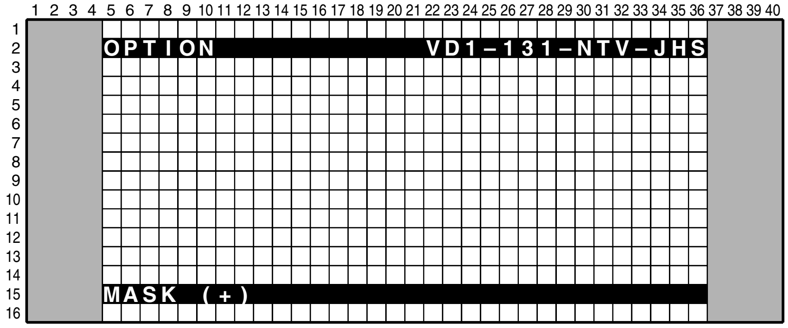


• related 232C command
PMC/PRH/PGH/PBH
PMB/PRL/PGL/PBL
ABL
GPW
GAJ

- Panel white balance, indication of ABL value and adjustment
- About < PANEL CONTRAST > and < PANEL BRIGHTNESS >, it is assumed that can adjust it when connected the fifth generation panel. It is done graydown when connected the fourth generation panel, and only indication of a value.

No.	OSD Display	Function	Adjustment range	Table indication	Corresponding RS-232C Command
1	PANEL CONTRAST <=>	Panel WB Adjustment - Main contrast	000-511	---	PMC***
2	PANEL R HIGH <=>	Panel WB Adjustment - R highlight	000-511	PT1/PT2/PT3	PRH***
3	PANEL G HIGH <=>	Panel WB Adjustment - G highlight	000-511	PT1/PT2/PT3	PGH***
4	PANEL B HIGH <=>	Panel WB Adjustment - B highlight	000-511	PT1/PT2/PT3	PBH***
5	PANEL BRIGHTNESS <=>	Panel WB Adjustment - Main Brightness	000-999	---	PMB***
6	PANEL R LOW <=>	Panel WB Adjustment - R low light	000-999	PT1/PT2/PT3	PRL***
7	PANEL G LOW <=>	Panel WB Adjustment - G low light	000-999	PT1/PT2/PT3	PGL***
8	PANEL B LOW <=>	Panel WB Adjustment - B low light	000-999	PT1/PT2/PT3	PBL***
9	ABL LEVEL <=>	ABL Adjustment	000-255	AB1/AB2/AB3	ABL***

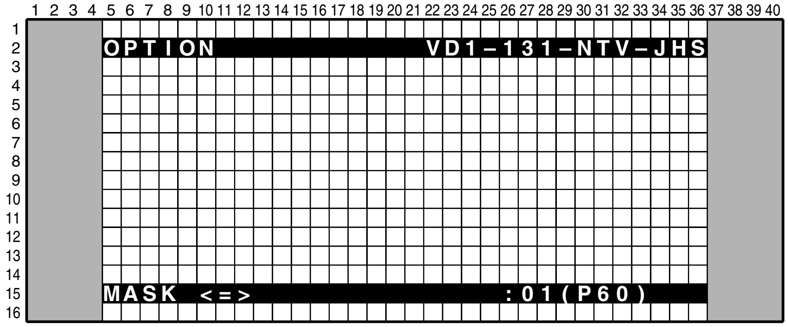
⑤ OPTION mode


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

```
OPTION                 VD1-131-NTV-JHS

MASK  (+)
```

No.	Function/Display	Content	Corresponding RS-232C Command
1	MASK (+)	Selecting the pattern mask of IC4	MSK
2	PEAK LIMITTER	ON ⇔ OFF	PLT
3	DYNAMIC RANGE	ON ⇔ OFF	DYR
4	EDID WRITE MODE	DISABLE ⇔ ENABLE	EPA
5	CH PRESET	FACTORY ⇔ USER	


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

```
OPTION                 VD1-131-NTV-JHS

MASK  <=>                    :01(P60)
```

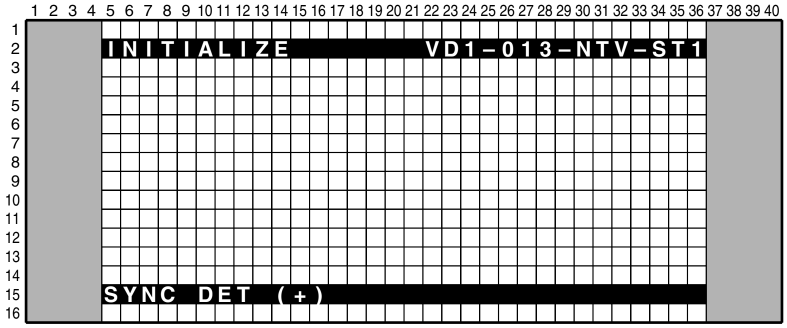
The mask frequency can be cyclically changed (see the table below) by pressing the left or right cursor key. The mask pattern can be cyclically changed by pressing the up or down cursor key. Approximately 2 seconds after either the up or down cursor key is pressed, the mask screen will appear.

- **Frequency selection while the mask is displayed**

No.	Function/Display	Content	Corresponding RS-232C Command
0	V50	Video 50-Hz sequence	F50
1	V60 (initial value)	Video 60-Hz sequence	F60
2	P60	PC 60-Hz sequence	F61
3	P70	PC 70-Hz sequence	F70
4	V72	Video 72-Hz sequence	F72
5	V75	Video 75-Hz sequence	F75

⑥ INITIALIZE mode

(For managing switching of the initial settings and destination setting)



No.	Function/Display	Content
1	SYNC DET (+)	
2	DRIVE MODE (+)	
3	SIDE MASK LEVEL (+)	
4	PANEL REVICE (+)	
5	FINAL SETUP (+)	
6	C TEMP LOW (+)	
7	C TEMP MID LOW (+)	
8	C TEMP MID (+)	
9	C TEMP MID HIGH (+)	
10	C TEMP HIGH (+)	
11	UART SELECT <=>	1200-232C ⇔ ••• ⇔ 38400-232C ⇔ 9600-SR+
12	CVT AUTO <=>	DISABLE ⇔ ENABLE (For Factory use)
13	HDMI INTR POSITION(+)	
14	SUS FREQ MODE<=>	000⇔ ••• ⇔ 007

- When there is a modification log, if the “Display” key is held pressed for at least 3 seconds while the above display is displayed, the modification log will be cleared.

• UART SELCT

Option No.	Function / Display	Operation / Control	Remarks
1 (initial setting)	9600-SR+	To set to SR+ (9600 BPS)	For switching external communication between RS-232C and SR+
2	1200-232C	To set to RS-232C (1200 BPS)	
3	2400-232C	To set to RS-232C (2400 BPS)	
4	4800-232C	To set to RS-232C (4800 BPS)	
5	9600-232C	To set to RS-232C (9600 BPS)	
6	19200-232C	To set to RS-232C (19200 BPS)	
7	38400-232C	To set to RS-232C (38400 BPS)	

Tips: How to change the SR+/RS-232C setting without entering Service Factory mode
Refer to "6.3 USING RS-232C COMMANDS".

6.8 LIST OF RS-232C COMMANDS

RS-232C commands can be used in Service Factory mode.
Before using RS-232C commands, it is necessary to change the factory presetting. See "6.3. USING RS-232C COMMANDS."

Command	Operation	Remarks
A		
ABL	Adjusting power consumption	
B		
BCP	Transmitting the backup data to the DIGITAL Assy	
BAVS00	Setting the power supply for the DTB antenna to 0 V	PDP-R05XE only
BAVS02	Setting the power supply for the DTB antenna to 5 V	PDP-R05XE only
BSL	Adjusting side mask B	
BYG	BY GAIN	
C		
CHM	Clearing the hour meter	
CNG	Clearing MR NG information	
CPC	Clearing the power-on counter	
CPD	Clearing power-down information	
CPM	Clearing the pulse meter	
CSD	Clearing shutdown information	
CTM	Clearing the modification log	This command is effective even during Standby mode.
D		
OSDS01	Turning on the on-screen display	While the OSDSOI command is in force, the duration of on-screen display is unlimited.
OSDS00	Turning off the on-screen display	On-screen display is prohibited.
DRF	Turning off the power for the drive system	
DRN	Turning on the power for the drive system	
DW*	Decreasing the adjustment value by *	*: 1-9, 0 (0 means 10), or F (making the adjustment value the minimum)
E		
EDWS00	Prohibiting writing of EDID data	
EDWS01	Permitting writing of EDID data	
F		
F50	Video 50-Hz sequence	
F60	Video 60-Hz sequence	
F61	PC 60-Hz sequence	
F70	PC 70-Hz sequence	
F72	Video 72-Hz sequence	
F75	Video 75-Hz sequence	
FAJ	Determining the adjustment values for the unit	
FAY	Turning Service Factory mode on	
FAN	Turning Service Factory mode off	The GUI equivalent to that usually displayed when the power is turned on is displayed.
FCSS00	Focus OFF	
FCSS01	Focus ON	
FST	Final set up	
G		The GET-group commands are effective at any time, including during Standby mode.
GA2	Obtaining the various adjustment values (Add Vrn to GAJ)	
GAJ	Obtaining the adjustment values for the panel	
GDI	Command to obtain Status	
GMM	Switching the gamma levels	Setting value: 000-007
GNG	Obtaining NG data of the MR	
GNM	Obtaining the serial No. of the MR	
GNP	Obtaining the serial No. of the panel	
GPC	Obtaining the P ON COUNTER value	
GPD	Obtaining power-down information	
GPR	Obtaining the PANEL REVISE data	
GPM	Obtaining the PULSE METER data	
GPW	Obtaining the PANEL W/B data	
GS1	Obtaining the version data for each device	
GS2	Obtaining data on various operations	
GS6	Obtaining the any version	
GSD	Obtaining shutdown information	
GSL	Adjusting side mask G	
GYG	GY GAIN	

Command	Operation	Remarks
I		
INC***	Selection of the tuner for terrestrial digital signals	PDP-R05XE only
INH	Selection of SD card/PCMCIA card	PDP-R05XE and PDP-R05E only
INPS01	Input selection: Input 1	
INPS02	Input selection: Input 2	
INPS03	Input selection: Input 3	
INPS04	Input selection: Input 4	
INPS05	Input selection: Input 5	PDP-R05XE and PDP-R05E only
INA	Selection of the tuner for terrestrial analog signals	
L		
LCD	Liquid crystal mode of MR alone	
M		
MSKS00	Mask mode: OFF	
MSKS01	White: 0-100%	
MSKS02	Aging mask	
MSKS03	Aging mask (detection of still picture: OFF)	
MSKS10	RAMP slant 1	
MSKS11	RAMP slant 4	
MSKS12	RAMP slant 1 shifting	
MSKS13	RAMP slant 4 shifting	
MSKS14	V RAMP	
MSKS15	H/V RAMP	
M1G	IC1 MAIN GAIN	
M1O	IC1 MAIN OFFSET	
MSKS20	WINDOW-Low: 102 / High: 870	
MSKS21	WINDOW-Low: 102 / High: 1023	
MSKS22	WINDOW-Low: 0 / High: 1023	
MSKS23	WINDOW-High: 1023 (CENTER)	
MSKS24	WINDOW-PEAK WINDOW	Area 1.25%
MSKS25	WINDOW-1/7 vertical window	
MSKS26	WINDOW-magenta/green stripe	
MSKS27	WINDOW-green/magenta stripe	
MSKS28	Window (black & white [1 × 8], checkered pattern [for EMG check])	
MSKS29	Window (for W/B adjustment, magenta, yellow)	
MSKS40	Wiper to prevent phosphor burn	
MSKS30	COLOR BAR	
MSKS31	Slanted lines	
MSKS51	Raster-white	
MSKS52	Raster-red	
MSKS53	Raster-green	
MSKS54	Raster-blue	
MSKS55	Raster-black	
MSKS56	Raster-cyan	
MSKS57	Raster-magenta	
MSKS58	Raster-yellow	
MSKS59	Raster-cyan 274	
MSKS60	Raster-50 flesh color	
MSKS61	Raster-50 light purple	
MSKS62	Raster-50 sky blue	
MSKS63	Raster-red 779	
MSKS64	Raster-cyan 218	
MSKS65	Raster-cyan 448	
MSKS66	Raster-43 flesh color	
MSKS67	Raster-red 640	
MSKS68	Raster-magenta 98	
MSKS69	Raster-43 sky blue 1	
MSKS70	Raster-43 sky blue 2	
MSKS71	Raster-43 light purple	
MSKS72	Raster-blue 960	
MSKS73	Raster-gray 511 (spare)	
MSKS74	Raster-gray 511 (spare)	

Command	Operation	Remarks
M		
MRG	AD MAIN R GAIN	
MRO	AD MAIN R OFFSET	
MGG	AD MAIN G GAIN	
MGO	AD MAIN G OFFSET	
MBG	AD MAIN B GAIN	
MBO	AD MAIN B OFFSET	
P		
PBH	Panel W/B B-HIGH adjustment	
PBL	Panel W/B B-LOW adjustment	
PGH	Panel W/B G-HIGH adjustment	
PGL	Panel W/B G-LOW adjustment	
POF	Turning the power OFF	
PON	Turning the power ON	
PRH	Panel W/B R-HIGH adjustment	
PRL	Panel W/B R-LOW adjustment	
R		
RYG	RY GAIN	
RSL	Adjustment of side mask R	
S		
S1G	IC1 SUB GAIN	
S1O	IC1 SUB OFFSET	
SBG	AD SUB B GAIN	
SBO	AD SUB B OFFSET	
SFI	Initialization of the full mask table	
SGG	AD SUB G GAIN	
SGO	AD SUB G OFFSET	
SRG	AD SUB R GAIN	
SRO	AD SUB R OFFSET	
T		
TSN	Not enabling the TRAP switch	
TSY	Enabling the TRAP switch	The command is effective even during Standby mode.
U		
UP*	Increasing the adjustment value by *	*: 1-9, 0 (0 means 10), or F (making the adjustment value the maximum)
UAJ	Resetting all data in the DIGITAL Assy to those of a new service part	
V		
VMTS00	Panel Mute OFF	
VMTS01	Panel Mute ON	
VOF	Offset voltage adjustment	
VSG	CVY GAIN	
VSU	SUS voltage adjustment	
X		
XD1	D1 trailing-edge pulse of X-SUS	
XD2	D2 trailing-edge pulse of X-SUS	
XU1	U1 leading-edge pulse of X-SUS	
XU2	U2 leading-edge pulse of X-SUS	
Y		
YD1	D1 trailing-edge pulse of Y-SUS	
YD2	D2 trailing-edge pulse of Y-SUS	
YD3	D3 trailing-edge pulse of Y-SUS	
YD4	D4 trailing-edge pulse of Y-SUS	
YU1	U1 leading-edge pulse of Y-SUS	
YU2	U2 leading-edge pulse of Y-SUS	

6.9 OUTLINE OF COMMANDS

■ GET Commands

GS1: Returning information on the model and the version of the software

Order	Data	Size
1	Data on the display	3 bytes
2	Version of the module microcomputer	4 bytes
3	Version of the IC4-MANTA	4 bytes
4	Sequence version (50VIDEO)	4 bytes
5	Sequence version (50PC)	4 bytes
6	Sequence version (43VIDEO)	4 bytes
7	Sequence version (43PC)	4 bytes
8	Version of the IF microcomputer	4 bytes
9	Version of the main microcomputer boot Software	4 bytes
10	Version of the main microcomputer	4 bytes
11	Version of the IC3 boot Software	4 bytes
12	Version of the IC3 Program	4 bytes
13	Version of the IC3 Enhanced	4 bytes
14	Version of the IC3 GUI	4 bytes

Breakdown of the data on the display

Data	Model
HD5	PDP-505HD series
HD4	PDP-435HD series

GPM: Returning the data of the PDP pulse meter

Order	Data	Size
1	Pulse meter (Block area 1)	10 bytes
2	Pulse meter (Block area 2)	10 bytes
3	Pulse meter (Block area 3)	10 bytes
4	Pulse meter (Block area 4)	10 bytes
5	Pulse meter (Block area 5)	10 bytes

Note: Refer to the service manual of the panel.

GPC: Returning the cumulative number of times the power to the PDP was turned on

Order	Data	Size
1	Power-on counter	8 bytes

• Commands for clearing the logs

Parameter	Corresponding RS-232C Command
PD INFO	CPD
SD INFO	CSD
NG INFO	CNG
HOUR METER	CHM
MR HOUR METER (Only for the system model)	CHR
PULSE METER	CPM
P ON COUNTER	CPC

GPD: Returning the power-down data (log) of the PDP

Order	Data	Size	Order	Data	Size
1	Latest "1st PD" data	1 byte	17	Fifth latest “1st PD” data	1 byte
2	Latest "2nd PD" data	1 byte	18	Fifth latest “2nd PD” data	1 byte
3	Data of hour meter for the latest PD	7 bytes	19	Data of hour meter for the fifth latest PD	7 bytes
4	Data on temperature for the latest PD (TEMP1)	3 bytes	20	Data on temperature for the fifth latest PD (TEMP1)	3 bytes
5	Second latest “1st PD” data	1 byte	21	Sixth latest “1st PD” data	1 byte
6	Second latest “2nd PD” data	1 byte	22	Sixth latest “2nd PD” data	1 byte
7	Data of hour meter for the second latest PD	7 bytes	23	Data of hour meter for the sixth latest PD	7 bytes
8	Data on temperature for the second latest PD (TEMP1)	3 bytes	24	Data on temperature for the sixth latest PD (TEMP1)	3 bytes
9	Third latest “1st PD” data	1 byte	25	Seventh latest “1st PD” data	1 byte
10	Third latest “2nd PD” data	1 byte	26	Seventh latest “2nd PD” data	1 byte
11	Data of hour meter for the third latest PD	7 bytes	27	Data of hour meter for the seventh latest PD	7 bytes
12	Data on temperature for the third latest PD (TEMP1)	3 bytes	28	Data on temperature for the seventh latest PD (TEMP1)	3 bytes
13	Fourth latest “1st PD” data	1 byte	29	Eighth latest “1st PD” data	1 byte
14	Fourth latest “2nd PD” data	1 byte	30	Eighth latest “2nd PD” data	1 byte
15	Data of hour meter for the fourth latest PD	7 bytes	31	Data of hour meter for the eighth latest PD	7 bytes
16	Data on temperature for the fourth latest PD (TEMP1)	3 bytes	32	Data on temperature for the eighth latest PD (TEMP1)	3 bytes

• Details on "1st/2nd PD" data

Data	Power-down Point
0	No power-down
1	Not used (for MR-POWER)
2	P-POWER
3	SCAN
4	SCN-5V
5	Y-DRIVE
6	Y-DCDC
7	Y-SUS
8	ADRS
9	X-DRIVE
A	X-DCDC
B	X-SUS
C	DIG-DCDC
D	IC4
F	Power-down point not identified

GSD: Returning the shutdown data (log) of the PDP

Order	Data	Size	Order	Data	Size
1	Latest SD data	1 byte	17	Fifth latest SD data	1 byte
2	Data of subcategory for the latest SD	1 byte	18	Data of subcategory for the fifth latest SD	1 byte
3	Data of hour meter for the latest SD	7 bytes	19	Data of hour meter for the fifth latest SD	7 bytes
4	Data on temperature for the latest SD (TEMP1)	3 bytes	20	Data on temperature for the fifth latest SD (TEMP1)	3 bytes
5	Second latest SD data	1 byte	21	Sixth latest SD data	1 byte
6	Data of subcategory for the second latest SD	1 byte	22	Data of subcategory for the sixth latest SD	1 byte
7	Data of hour meter for the second latest SD	7 bytes	23	Data of hour meter for the sixth latest SD	7 bytes
8	Data on temperature for the second latest SD (TEMP1)	3 bytes	24	Data on temperature for the sixth latest SD (TEMP1)	3 bytes
9	Third latest SD data	1 byte	25	Seventh latest SD data	1 byte
10	Data of subcategory for the third latest SD	1 byte	26	Data of subcategory for the seventh latest SD	1 byte
11	Data of hour meter for the third latest SD	7 bytes	27	Data of hour meter for the seventh latest SD	7 bytes
12	Data on temperature for the third latest SD (TEMP1)	3 bytes	28	Data on temperature for the seventh latest SD (TEMP1)	3 bytes
13	Fourth latest SD data	1 byte	29	Eighth latest SD data	1 byte
14	Data of subcategory for the fourth latest SD	1 byte	30	Data of subcategory for the eighth latest SD	1 byte
15	Data of hour meter for the fourth latest SD	7 bytes	31	Data of hour meter for the eighth latest SD	7 bytes
16	Data on temperature for the fourth latest SD (TEMP1)	3 bytes	32	Data on temperature for the eighth latest SD (TEMP1)	3 bytes

• Details on the shutdown data

Data	Cause of Shutdown
0	No abnormality
1	IC4 (IC5401)
2	Module microcomputer IIC
3	Abnormality in RST2 (power decrease of DC-DC converter)
4	Panel having abnormally high temperature
5	Audio failure (short-circuiting of the speakers)
6 - F	Spares

• Data on the shutdown subcategories for the module microcomputer IIC

Data	Cause of Shutdown
0	No subcategory
1	EEPROM (4k) (IC5206)
2	EEPROM (2k) (IC4002)
3	Volume IC (IC3502)

GNG: Returning the data (logs) on power-down and shutdown of the Media Receiver

Order	Data	Size	Order	Data	Size
1	Latest NG data	1 byte	17	Fifth latest NG data	1 byte
2	Data of subcategory for the latest NG	1 byte	18	Data of subcategory for the fifth latest NG	1 byte
3	Data of MR hour meter for the latest NG	7 bytes	19	Data of MR hour meter for the fifth latest NG	7 bytes
4	Data on temperature for the latest NG (TEMP2)	3 bytes	20	Data on temperature for the fifth latest NG (TEMP2)	3 bytes
5	Second latest NG data	1 byte	21	Sixth latest NG data	1 byte
6	Data of subcategory for the second latest NG	1 byte	22	Data of subcategory for the sixth latest NG	1 byte
7	Data of MR hour meter for the second latest NG	7 bytes	23	Data of MR hour meter for the sixth latest NG	7 bytes
8	Data on temperature for the second latest NG (TEMP2)	3 bytes	24	Data on temperature for the sixth latest NG (TEMP2)	3 bytes
9	Third latest NG data	1 byte	25	Seventh latest NG data	1 byte
10	Data of subcategory for the third latest NG	1 byte	26	Data of subcategory for the seventh latest NG	1 byte
11	Data of MR hour meter for the third latest NG	7 bytes	27	Data of MR hour meter for the seventh latest NG	7 bytes
12	Data on temperature for the third latest NG (TEMP2)	3 bytes	28	Data on temperature for the seventh latest NG (TEMP2)	3 bytes
13	Fourth latest NG data	1 byte	29	Eighth latest NG data	1 byte
14	Data of subcategory for the fourth latest NG	1 byte	30	Data of subcategory for the eighth latest NG	1 byte
15	Data of MR hour meter for the fourth latest NG	7 bytes	31	Data of MR hour meter for the eighth latest NG	7 bytes
16	Data on temperature for the fourth latest NG (TEMP2)	3 bytes	32	Data on temperature for the eighth latest NG (TEMP2)	3 bytes

• Details on the NG data

Data	Cause of Shutdown
0	No abnormality
1	Power-down of the MR power supply
2	Communication failure of the module microcomputer
3	Three-wire serial communication failure of the main microcomputer
4	IIC communication failure of the main microcomputer
5	Communication failure of the main microcomputer
6	MR having abnormally high temperature
7	Fan stopped
8	Failure of the UART communication
9	Abnormality in RST2 of the MR (power decrease of DC-DC converter)

• Data on the subcategories for failure in 3-wire serial communication of the main microcomputer

Data	Cause of Shutdown
0	No subcategory
1	Communication failure of the IF microcomputer
2	IC2 communication failure
3	IC3 communication failure

• Data on the subcategories for failure in the digital tuner

Data	Cause of Shutdown
0	No subcategory (DTV for North America)
1	Communication failure of the DTV microcomputer (PS/RST)
2	DTV NG (DEVICE)
3	DTV microcomputer (CMD)
4	DTV microcomputer communication (RETRY)
5	PC CARD Communication NG (CD-COM)
6	PC CARD Mdule (CD-DEV)
7	PC CARD Reset NG (CD-RST)

• Data on the subcategories for failure in IIC communication of the main microcomputer

Data	Cause of Shutdown
0	No subcategory
1	EEPROM (128k) (IC7205)
2	GCR (Only domestic model)
3	IC1 main (IC6107)
4	IC1 sub (IC6255)
5	AD-PLL main (IC6402)
6	AD-PLL sub (IC6602)
7	IC6 (IC6951)
8	Not used
9	HDMI2(IC6881)
A	7-3VIDEO SW (IC8002)
B	6-2RGB SW (IC8005)
C	Front end 1 (U7501)
D	Not used
E	TX-COM (2C8904)
F	PANEL LINK TX (IC7401)
G	PANEL LINK RX
H	Not used
I	Not used
K	AV-EEP ROM

GAJ: Returning drive-related adjustment values of the PDP

Order	Data	Size
1	Currently used ABL table	3 bytes
2	Upper limit of the electric power	3 bytes
3	Vsus adjustment value	3 bytes
4	Vofs adjustment value	3 bytes
5	X-SUS-U1 adjustment value (XU1)	3 bytes
6	X-SUS-U2 adjustment value (XU2)	3 bytes
7	X-SUS-D2 adjustment value (XD2)	3 bytes
8	X-SUS-D1 adjustment value (XD1)	3 bytes
9	Y-SUS-U1 adjustment value (YU1)	3 bytes
10	Y-SUS-U2 adjustment value (YU2)	3 bytes
11	Y-SUS-D1-2 adjustment value (YD2)	3 bytes
12	Y-SUS-D1-1 adjustment value (YD1)	3 bytes
13	Y-SUS-D2-2 adjustment value (YD4)	3 bytes
14	Y-SUS-D2-1 adjustment value (YD3)	3 bytes

Data	Table
AB1	ABL table for NTSC
AB2	ABL table for PAL
AB3	ABL table for PC

GPW: Returning RGB-level-related adjustment values of the PDP

Order	Data	Size
1	Panel W/B table currently used	3 bytes
2	Main contrast	4 bytes
3	Red contrast of the W/B adjustment value	4 bytes
4	Green contrast of the W/B adjustment value	4 bytes
5	Blue contrast of the W/B adjustment value	4 bytes
6	Main brightness	4 bytes
7	Red brightness of the W/B adjustment value	4 bytes
8	Green brightness of the W/B adjustment value	4 bytes
9	Blue brightness of the W/B adjustment value	4 bytes

Data	Table
PT1	ABL table for NTSC
PT2	ABL table for PAL
PT3	Reserved table

GS6: Returning information of the Flash Device

Order	Data	Size
1	Display Information	3 bytes
2	Version of the DTB (PDP-R05XE only)	4 bytes
3	Version of the PC Card (Except PDP-R05FE)	8 bytes
4	Version of the Text	60 bytes
5	User Passward	4 bytes

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TROUBLESHOOTING

● Image for the composite or S signal is not displayed

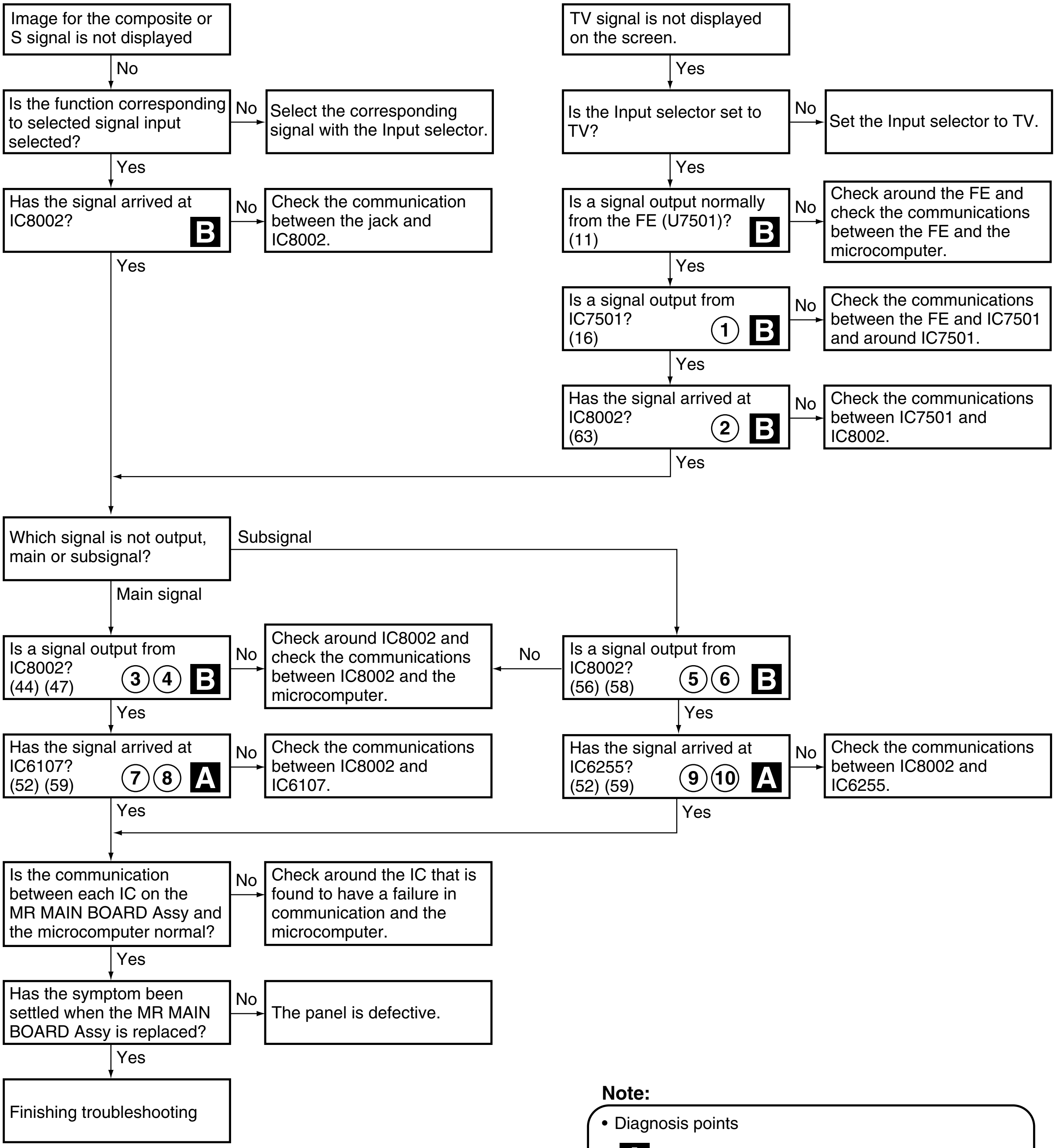


Image for the composite or S signal is not displayed
No
Is the function corresponding to selected signal input selected?
No
Select the corresponding signal with the Input selector.
Yes
Has the signal arrived at IC8002? B
No
Check the communication between the jack and IC8002.
Yes
TV signal is not displayed on the screen.
Yes
Is the Input selector set to TV?
No
Set the Input selector to TV.
Yes
Is a signal output normally from the FE (U7501)? (11) B
No
Check around the FE and check the communications between the FE and the microcomputer.
Yes
Is a signal output from IC7501? (16) ① B
No
Check the communications between the FE and IC7501 and around IC7501.
Yes
Has the signal arrived at IC8002? (63) ② B
No
Check the communications between IC7501 and IC8002.
Yes
Which signal is not output, main or subsignal?
Subsignal
Main signal
Is a signal output from IC8002? (44) (47) ③ ④ B
No
Check around IC8002 and check the communications between IC8002 and the microcomputer.
No
Is a signal output from IC8002? (56) (58) ⑤ ⑥ B
Yes
Has the signal arrived at IC6107? (52) (59) ⑦ ⑧ A
No
Check the communications between IC8002 and IC6107.
Yes
Has the signal arrived at IC6255? (52) (59) ⑨ ⑩ A
No
Check the communications between IC8002 and IC6255.
Yes
Yes
Is the communication between each IC on the MR MAIN BOARD Assy and the microcomputer normal?
No
Check around the IC that is found to have a failure in communication and the microcomputer.
Yes
Has the symptom been settled when the MR MAIN BOARD Assy is replaced?
No
The panel is defective.
Yes
Finishing troubleshooting

Note:

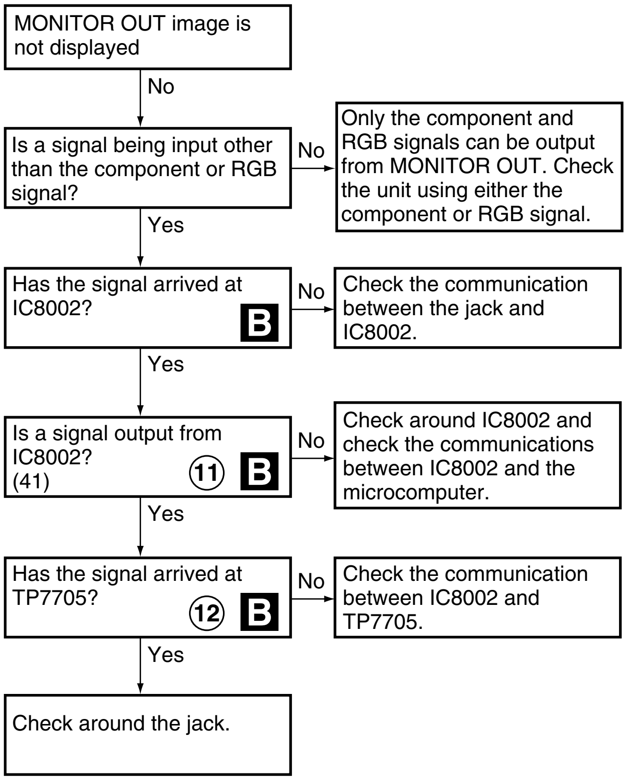
- Diagnosis points

A MR MAIN BOARD ASSY

B AV BOARD ASSY

- For check the communication with the microcomputer, refer to the section 6.7 SERVICE FACTORY MODE.
- The encircled numbers denote measuring point in the Waveforms for Troubleshooting.

● MONITOR OUT image is not displayed


MONITOR OUT image is not displayed
No
Is a signal being input other than the component or RGB signal?
No
Only the component and RGB signals can be output from MONITOR OUT. Check the unit using either the component or RGB signal.
Yes
Has the signal arrived at IC8002?
B
No
Check the communication between the jack and IC8002.
Yes
Is a signal output from IC8002? (41)
⑪
B
No
Check around IC8002 and check the communications between IC8002 and the microcomputer.
Yes
Has the signal arrived at TP7705?
⑫
B
No
Check the communication between IC8002 and TP7705.
Yes
Check around the jack.

● Image for the component or RGB signals is not displayed

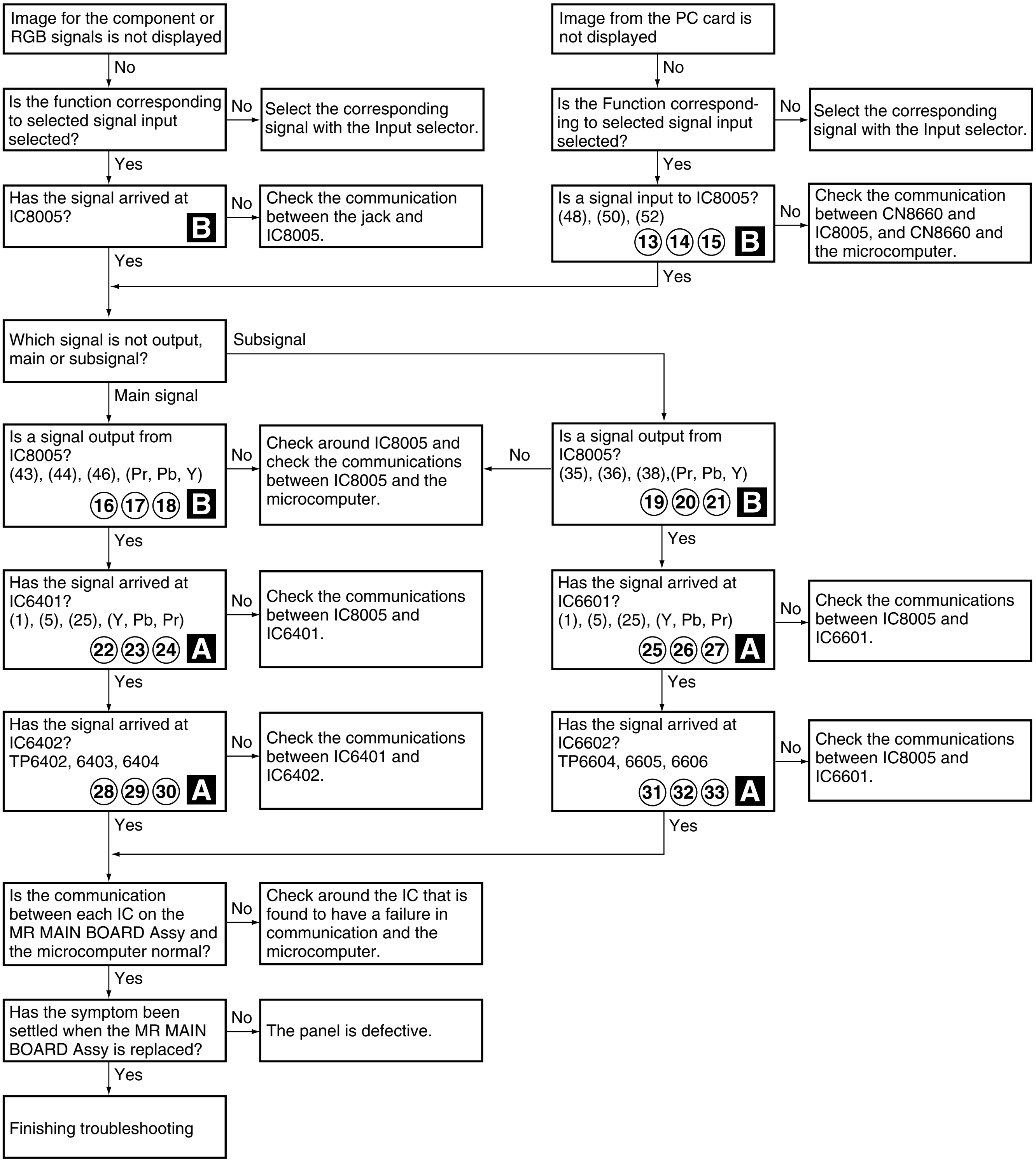
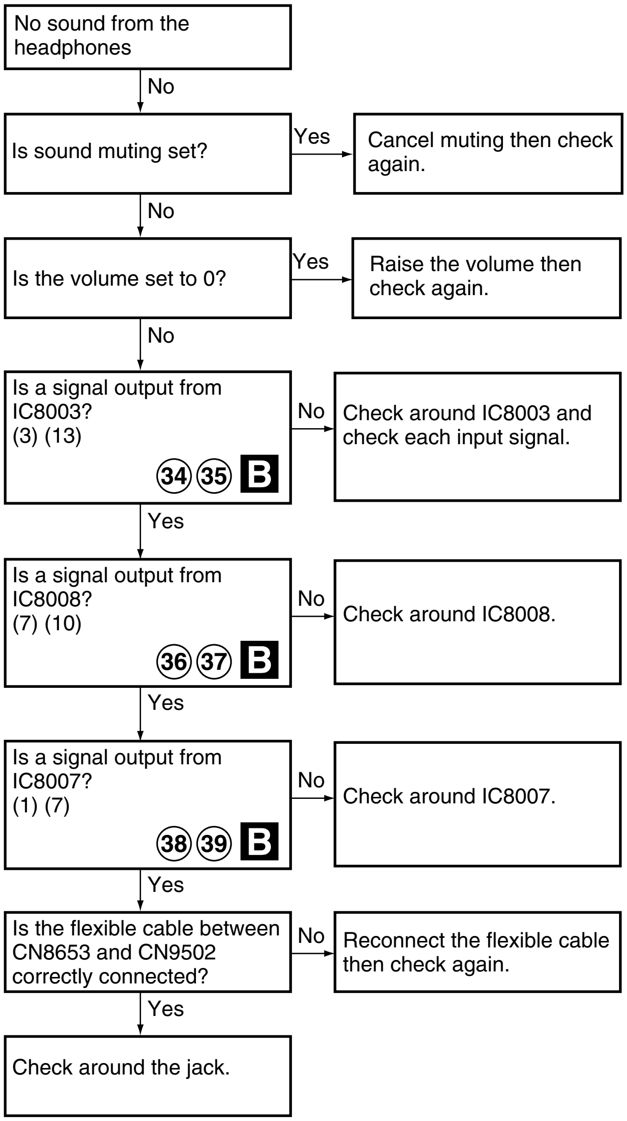
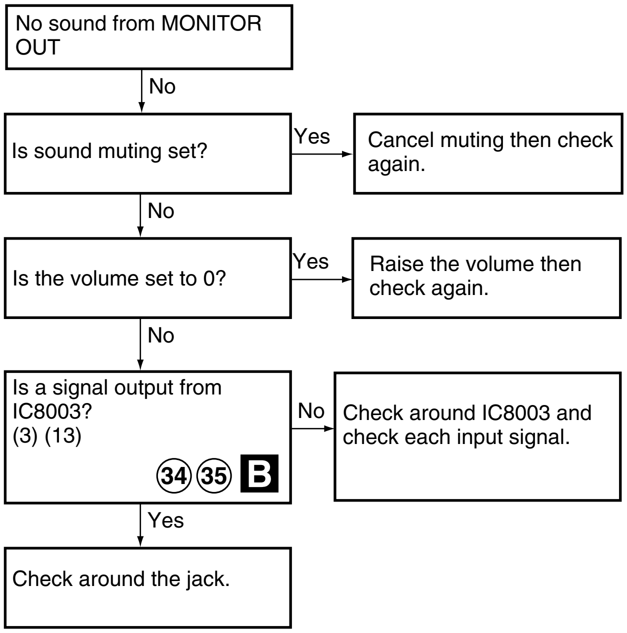


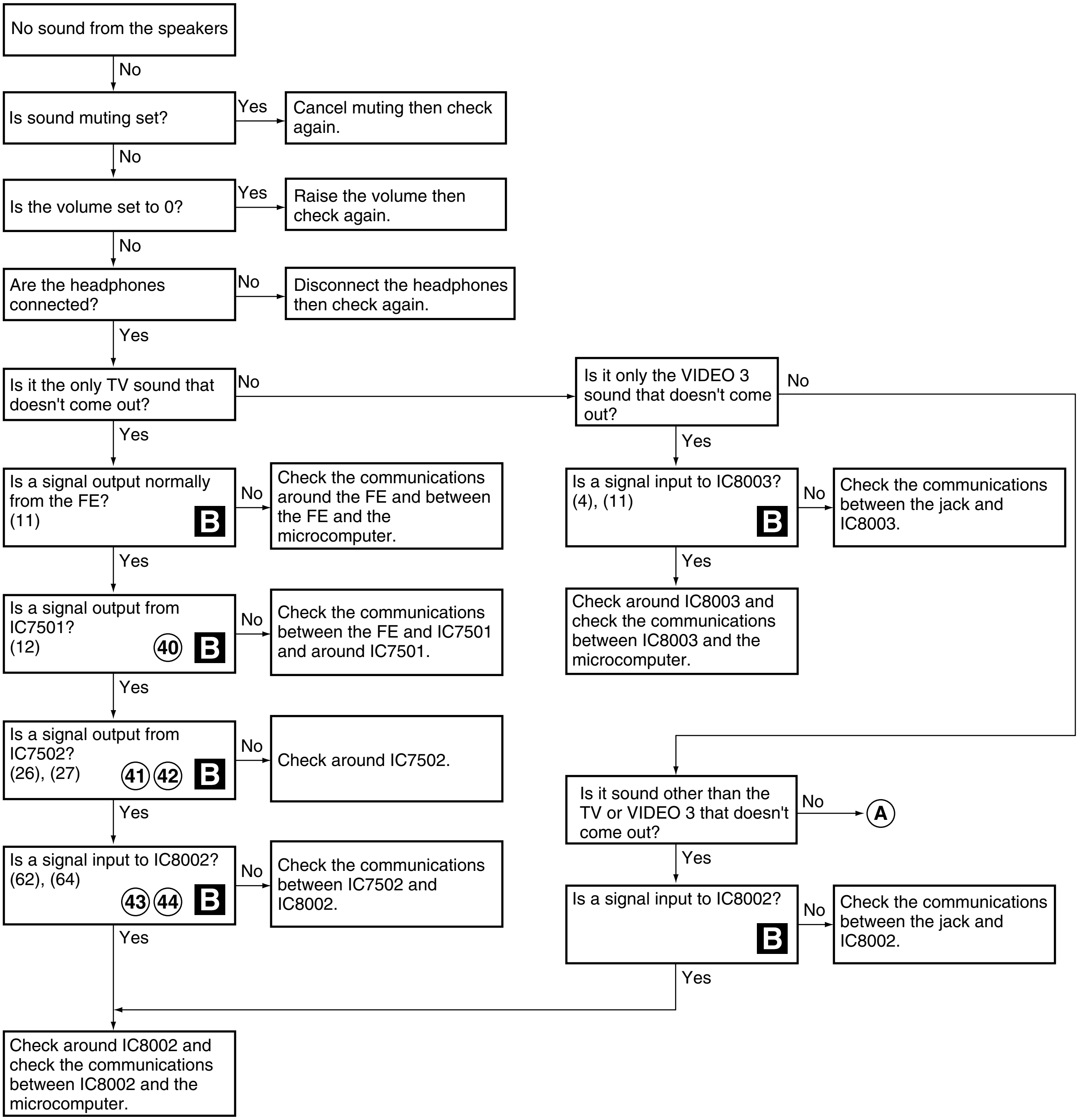
Image for the component or RGB signals is not displayed
No
Is the function corresponding to selected signal input selected?
No
Select the corresponding signal with the Input selector.
Yes
Has the signal arrived at IC8005? B
No
Check the communication between the jack and IC8005.
Yes
Image from the PC card is not displayed
No
Is the Function corresponding to selected signal input selected?
No
Select the corresponding signal with the Input selector.
Yes
Is a signal input to IC8005? (48), (50), (52) ⑬ ⑭ ⑮ B
No
Check the communication between CN8660 and IC8005, and CN8660 and the microcomputer.
Yes
Which signal is not output, main or subsignal?
Subsignal
Main signal
Is a signal output from IC8005? (43), (44), (46), (Pr, Pb, Y) ⑯ ⑰ ⑱ B
No
Check around IC8005 and check the communications between IC8005 and the microcomputer.
No
Is a signal output from IC8005? (35), (36), (38),(Pr, Pb, Y) ⑲ ⑳ ㉑ B
Yes
Has the signal arrived at IC6401? (1), (5), (25), (Y, Pb, Pr) ㉒ ㉓ ㉔ A
No
Check the communications between IC8005 and IC6401.
Yes
Has the signal arrived at IC6601? (1), (5), (25), (Y, Pb, Pr) ㉕ ㉖ ㉗ A
No
Check the communications between IC8005 and IC6601.
Yes
Has the signal arrived at IC6402? TP6402, 6403, 6404 ㉘ ㉙ ㉚ A
No
Check the communications between IC6401 and IC6402.
Yes
Has the signal arrived at IC6602? TP6604, 6605, 6606 ㉛ ㉜ ㉝ A
No
Check the communications between IC8005 and IC6601.
Yes
Yes
Is the communication between each IC on the MR MAIN BOARD Assy and the microcomputer normal?
No
Check around the IC that is found to have a failure in communication and the microcomputer.
Yes
Has the symptom been settled when the MR MAIN BOARD Assy is replaced?
No
The panel is defective.
Yes
Finishing troubleshooting

● No sound from the headphones

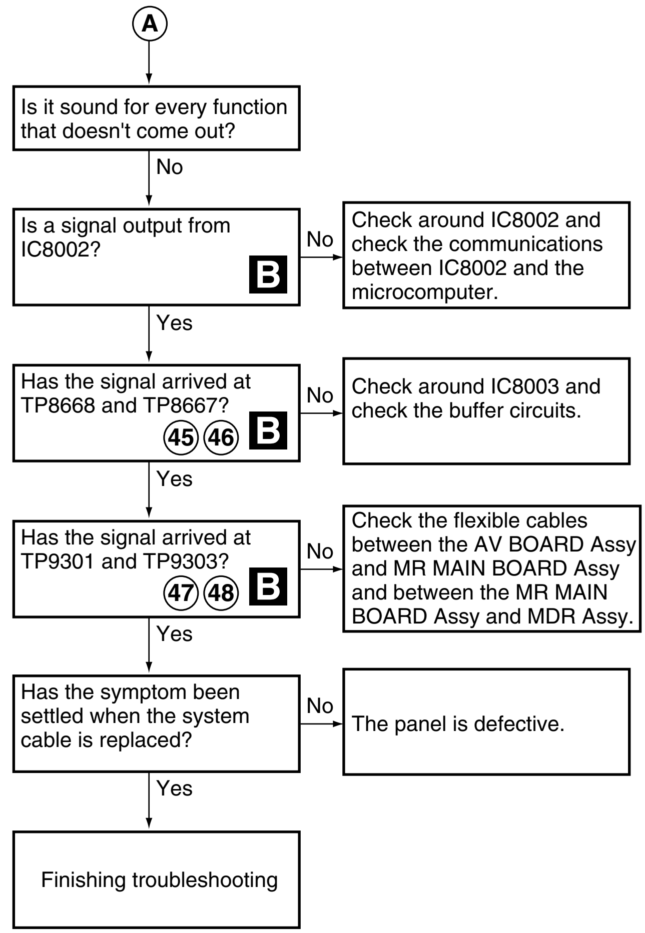

No sound from the headphones
No
Is sound muting set?
Yes
Cancel muting then check again.
No
Is the volume set to 0?
Yes
Raise the volume then check again.
No
Is a signal output from IC8003? (3) (13)
㉞ ㉟ B
No
Check around IC8003 and check each input signal.
Yes
Is a signal output from IC8008? (7) (10)
㊱ ㊲ B
No
Check around IC8008.
Yes
Is a signal output from IC8007? (1) (7)
㊳ ㊴ B
No
Check around IC8007.
Yes
Is the flexible cable between CN8653 and CN9502 correctly connected?
No
Reconnect the flexible cable then check again.
Yes
Check around the jack.

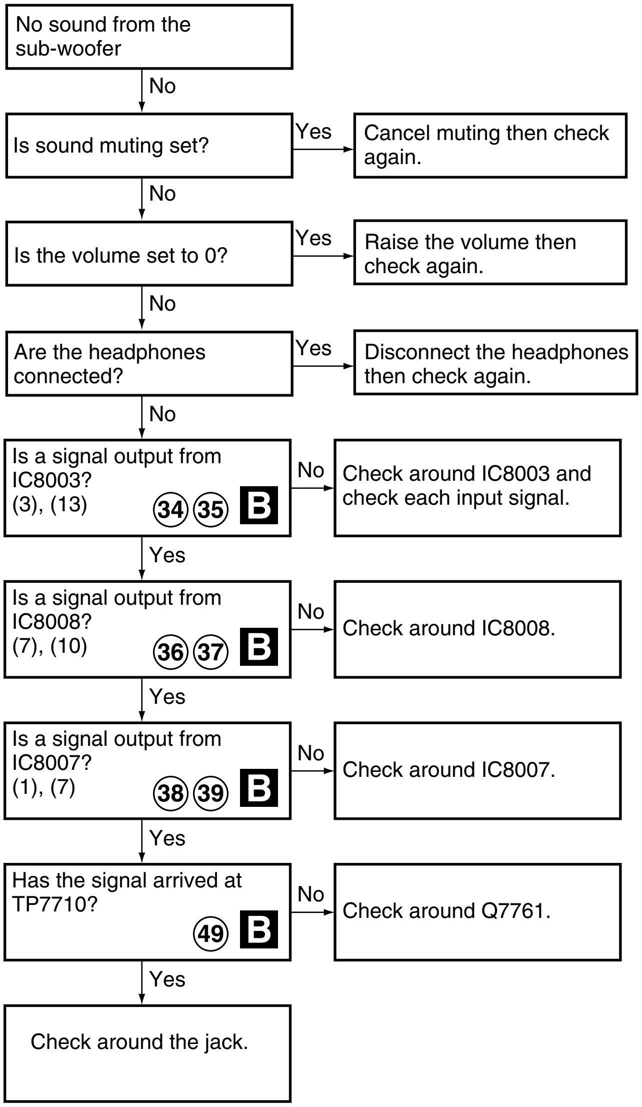

No sound from MONITOR OUT
No
Is sound muting set?
Yes
Cancel muting then check again.
No
Is the volume set to 0?
Yes
Raise the volume then check again.
No
Is a signal output from IC8003? (3) (13)
㉞ ㉟ B
No
Check around IC8003 and check each input signal.
Yes
Check around the jack.

● No sound from the speakers (1/2)

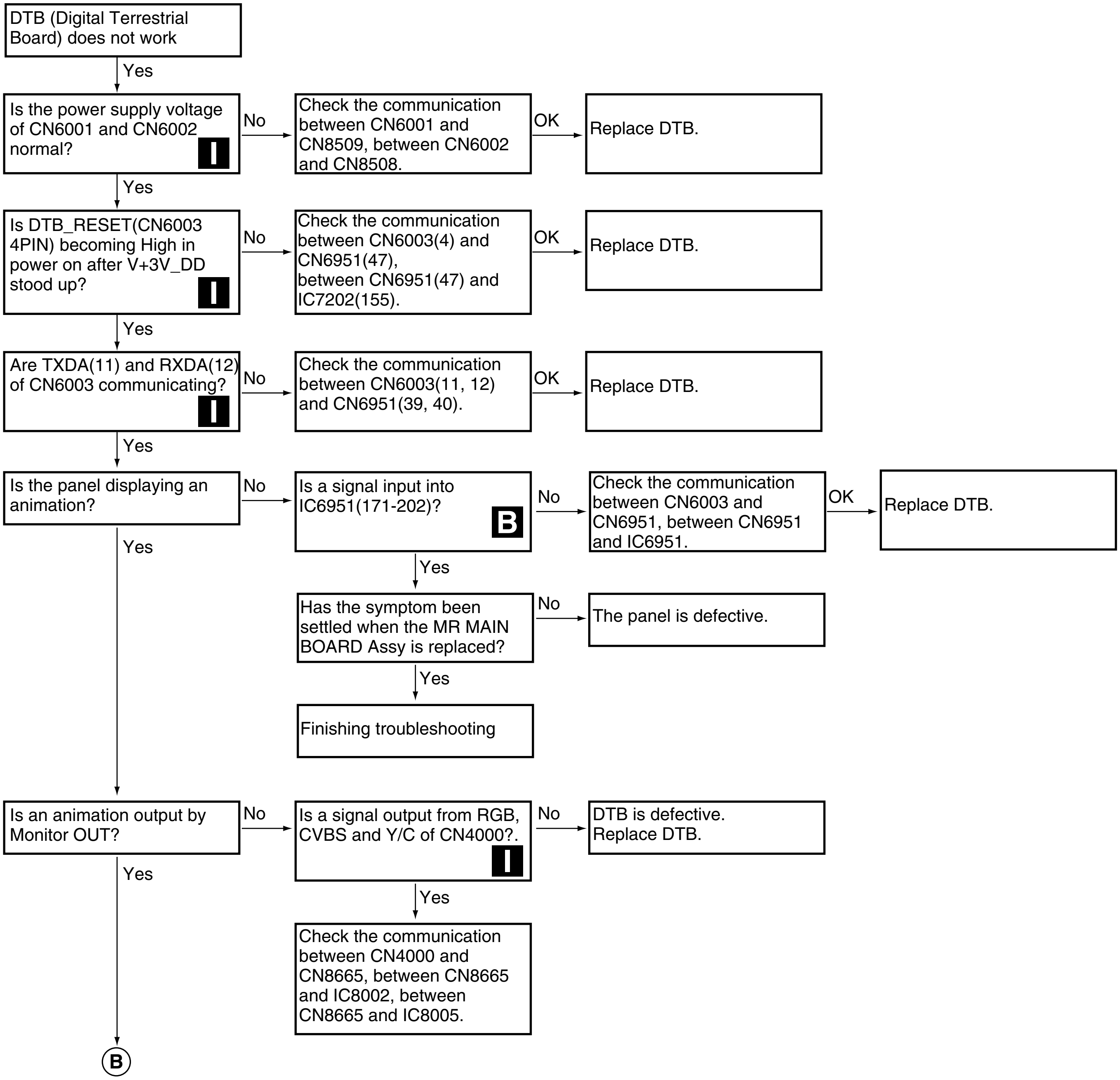

No sound from the speakers
No
Is sound muting set?
Yes
Cancel muting then check again.
No
Is the volume set to 0?
Yes
Raise the volume then check again.
No
Are the headphones connected?
No
Disconnect the headphones then check again.
Yes
Is it the only TV sound that doesn't come out?
No
Is it only the VIDEO 3 sound that doesn't come out?
No
Yes
Is a signal output normally from the FE? (11)
B
No
Check the communications around the FE and between the FE and the microcomputer.
Yes
Is a signal input to IC8003? (4), (11)
B
No
Check the communications between the jack and IC8003.
Yes
Check around IC8003 and check the communications between IC8003 and the microcomputer.
Yes
Is a signal output from IC7501? (12)
40
B
No
Check the communications between the FE and IC7501 and around IC7501.
Yes
Is a signal output from IC7502? (26), (27)
41
42
B
No
Check around IC7502.
Is it sound other than the TV or VIDEO 3 that doesn't come out?
No
A
Yes
Yes
Is a signal input to IC8002? (62), (64)
43
44
B
No
Check the communications between IC7502 and IC8002.
Is a signal input to IC8002?
B
No
Check the communications between the jack and IC8002.
Yes
Yes
Check around IC8002 and check the communications between IC8002 and the microcomputer.

● No sound from the speakers (2/2)

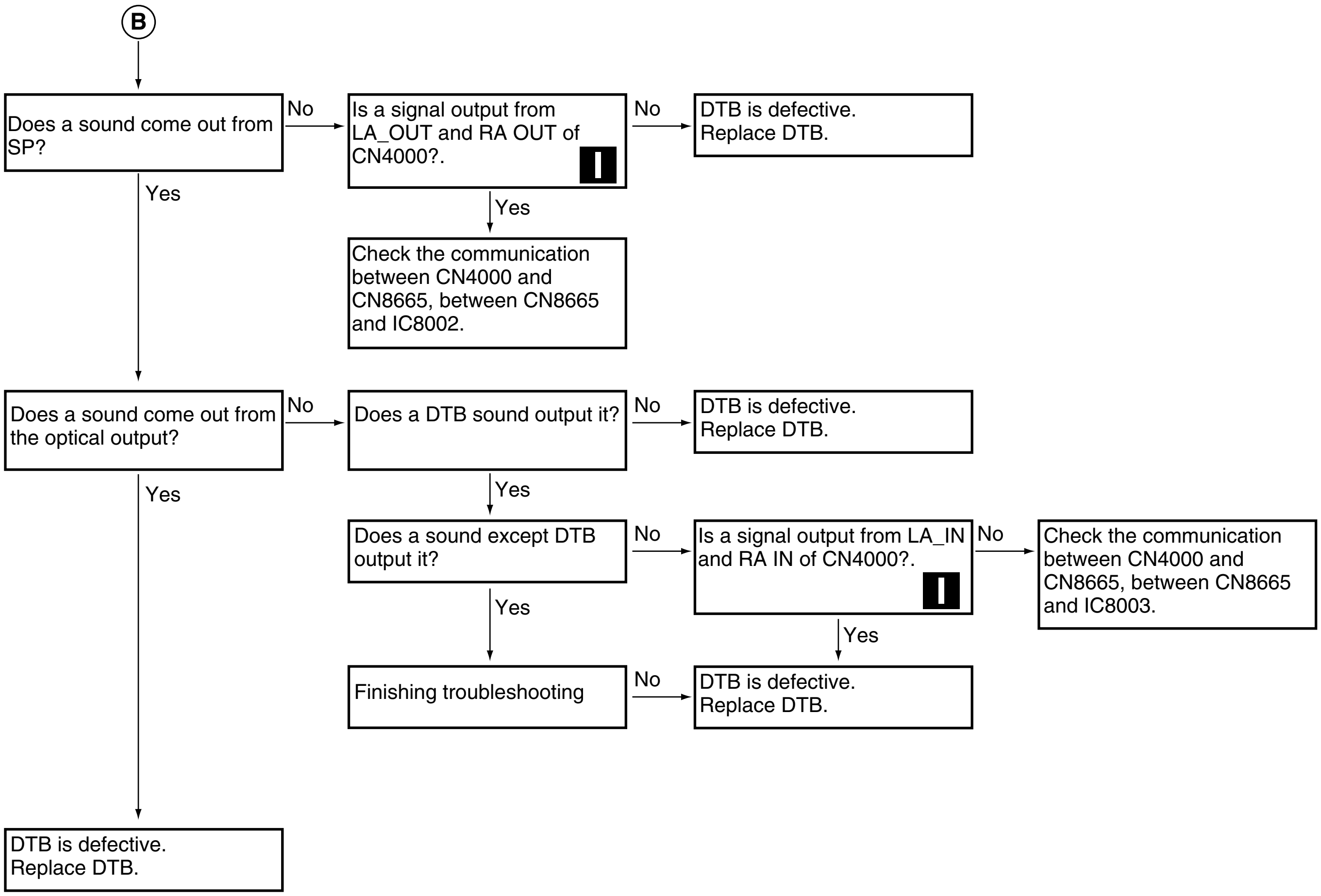

Ⓐ
Is it sound for every function that doesn't come out?
No
Is a signal output from IC8002?
B
No
Check around IC8002 and check the communications between IC8002 and the microcomputer.
Yes
Has the signal arrived at TP8668 and TP8667?
㊺ ㊻ B
No
Check around IC8003 and check the buffer circuits.
Yes
Has the signal arrived at TP9301 and TP9303?
㊼ ㊽ B
No
Check the flexible cables between the AV BOARD Assy and MR MAIN BOARD Assy and between the MR MAIN BOARD Assy and MDR Assy.
Yes
Has the symptom been settled when the system cable is replaced?
No
The panel is defective.
Yes
Finishing troubleshooting


No sound from the sub-woofer
No
Is sound muting set?
Yes
Cancel muting then check again.
No
Is the volume set to 0?
Yes
Raise the volume then check again.
No
Are the headphones connected?
Yes
Disconnect the headphones then check again.
No
Is a signal output from IC8003? (3), (13)
㉞ ㉟ B
No
Check around IC8003 and check each input signal.
Yes
Is a signal output from IC8008? (7), (10)
㊱ ㊲ B
No
Check around IC8008.
Yes
Is a signal output from IC8007? (1), (7)
㊳ ㊴ B
No
Check around IC8007.
Yes
Has the signal arrived at TP7710?
㊾ B
No
Check around Q7761.
Yes
Check around the jack.

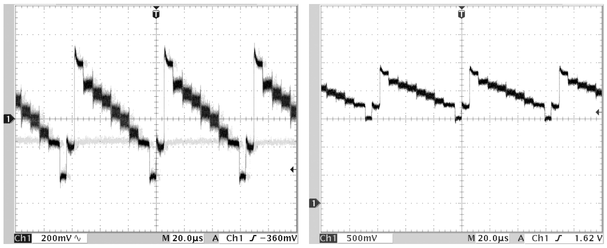
DTB (Digital Terrestrial Board)(1/2)


DTB (Digital Terrestrial Board) does not work
Yes
Is the power supply voltage of CN6001 and CN6002 normal?
I
No
Check the communication between CN6001 and CN8509, between CN6002 and CN8508.
OK
Replace DTB.
Yes
Is DTB_RESET(CN6003 4PIN) becoming High in power on after V+3V_DD stood up?
I
No
Check the communication between CN6003(4) and CN6951(47), between CN6951(47) and IC7202(155).
OK
Replace DTB.
Yes
Are TXDA(11) and RXDA(12) of CN6003 communicating?
I
No
Check the communication between CN6003(11, 12) and CN6951(39, 40).
OK
Replace DTB.
Yes
Is the panel displaying an animation?
No
Is a signal input into IC6951(171-202)?
B
No
Check the communication between CN6003 and CN6951, between CN6951 and IC6951.
OK
Replace DTB.
Yes
Has the symptom been settled when the MR MAIN BOARD Assy is replaced?
No
The panel is defective.
Yes
Finishing troubleshooting
Yes
Is an animation output by Monitor OUT?
No
Is a signal output from RGB, CVBS and Y/C of CN4000?.
I
No
DTB is defective. Replace DTB.
Yes
Check the communication between CN4000 and CN8665, between CN8665 and IC8002, between CN8665 and IC8005.
Yes
B

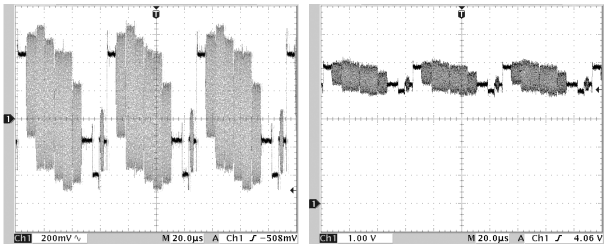
● DTB (Digital Terrestrial Board)(2/2)


B
Does a sound come out from SP?
No
Is a signal output from LA_OUT and RA OUT of CN4000?.
I
No
DTB is defective. Replace DTB.
Yes
Check the communication between CN4000 and CN8665, between CN8665 and IC8002.
Yes
Does a sound come out from the optical output?
No
Does a DTB sound output it?
No
DTB is defective. Replace DTB.
Yes
Does a sound except DTB output it?
No
Is a signal output from LA_IN and RA IN of CN4000?.
I
No
Check the communication between CN4000 and CN8665, between CN8665 and IC8003.
Yes
Yes
Finishing troubleshooting
No
DTB is defective. Replace DTB.
Yes
DTB is defective. Replace DTB.

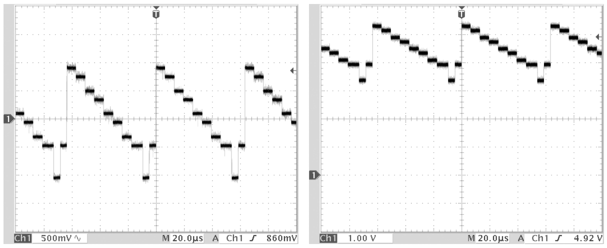
① IC7501 - pin 16



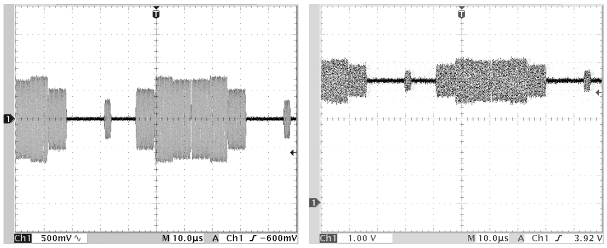
② IC8002 - pin 63



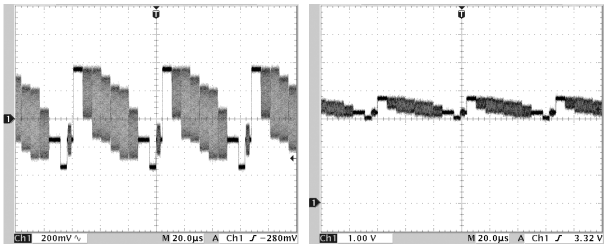
③ IC8002 - pin 44



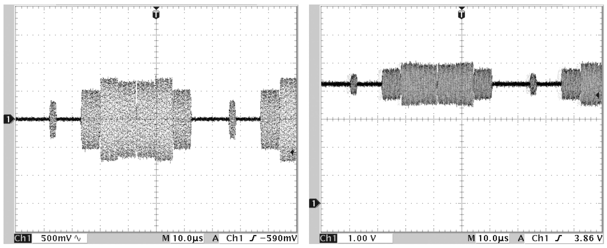
④ IC8002 - pin 47



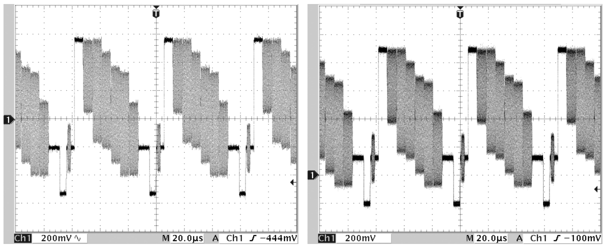
⑤ IC8002 - pin 56



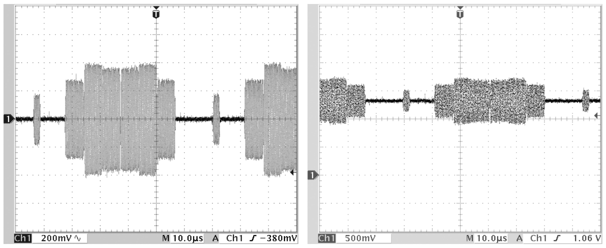
⑥ IC8002 - pin 58



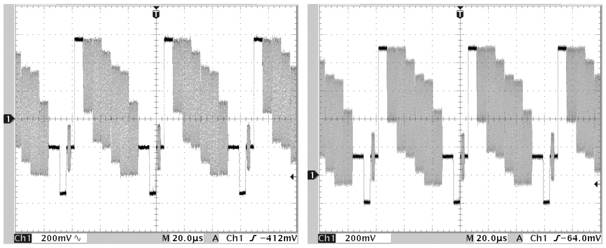
⑦ IC6107 - pin 52



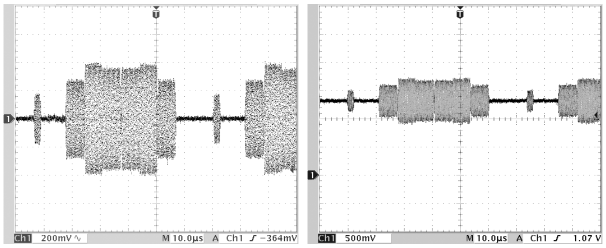
⑧ IC6107 - pin 59



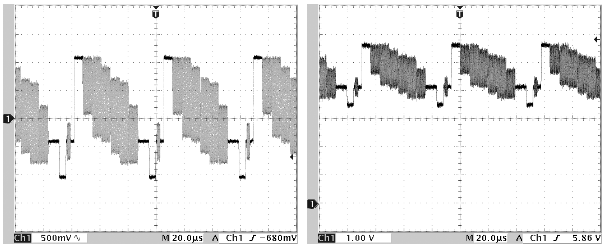
⑨ IC6255 - pin 52



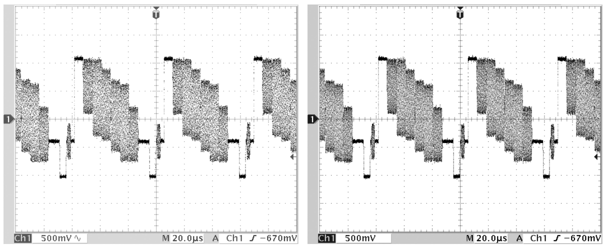
⑩ IC6255 - pin 59



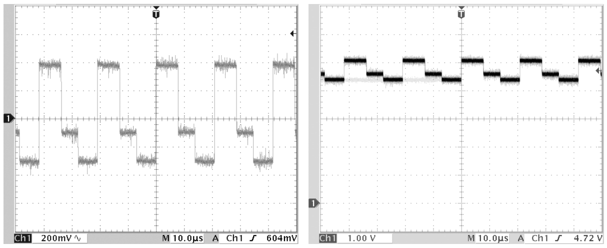
⑪ IC8002 - pin 41



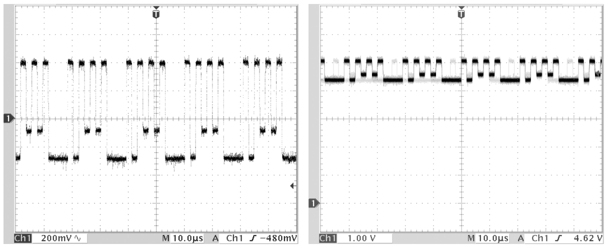
⑫ TP7705



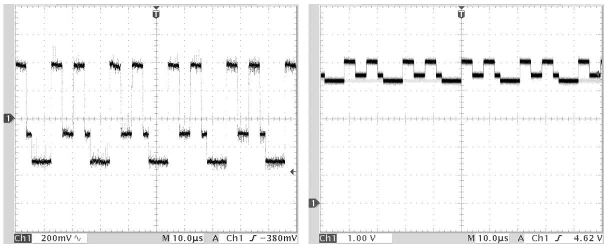
⑬ IC8005 - pin 48



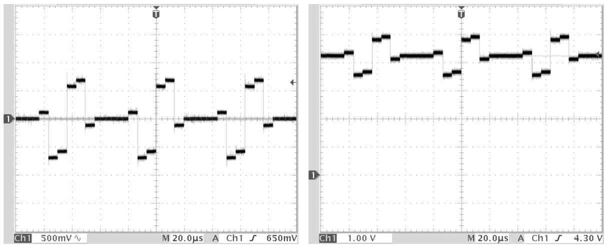
⑭ IC8005 - pin 50



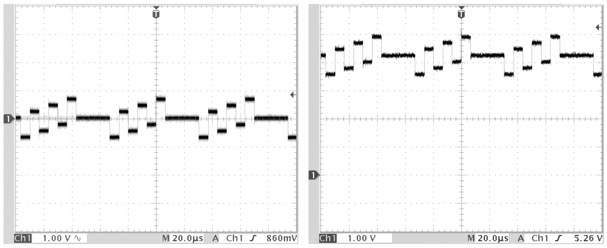
⑮ IC8005 - pin 52



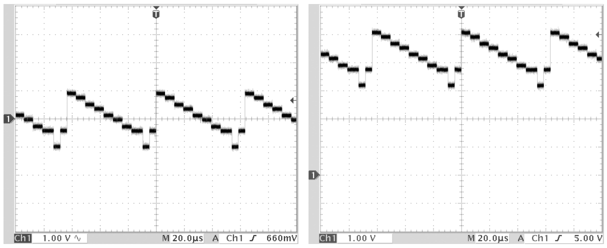
⑯ IC8005 - pin 43



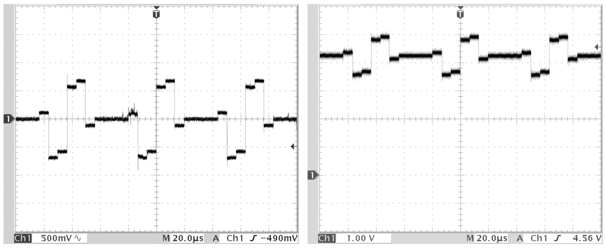
⑰ IC8005 - pin 44



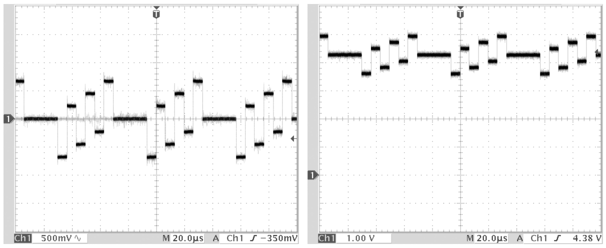
⑱ IC8005 - pin 46



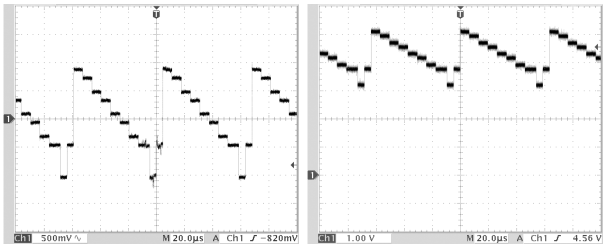
⑲ IC8005 - pin 35



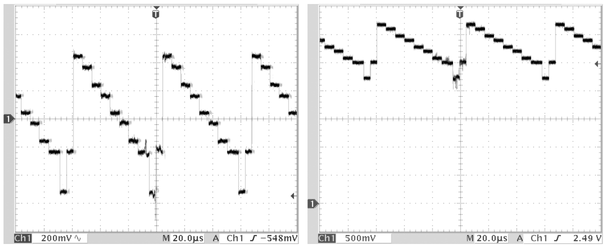
⑳ IC8005 - pin 36



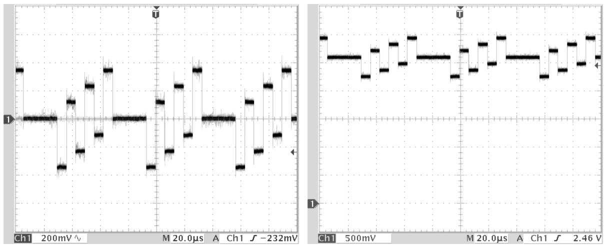
㉑ IC8005 - pin 38



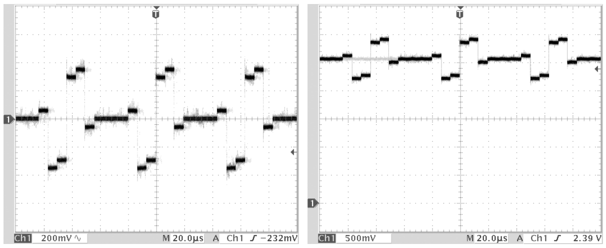
㉒ IC6401 - pin 1



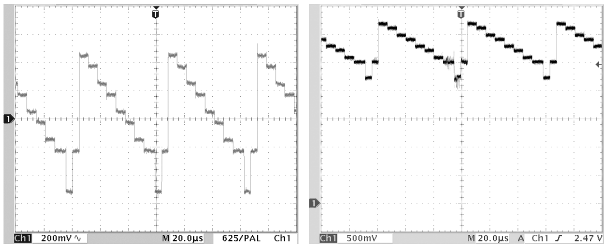
㉓ IC6401 - pin 5



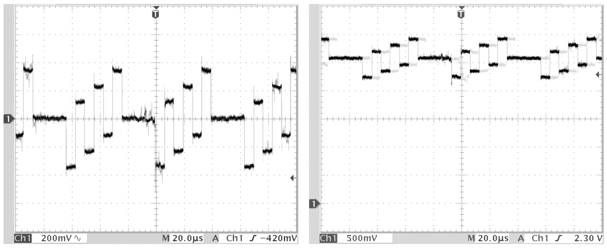
㉔ IC6401 - pin 25



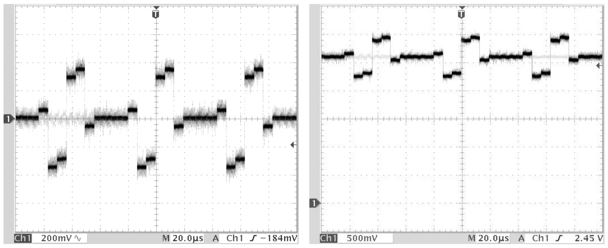
㉕ IC6601 - pin 1



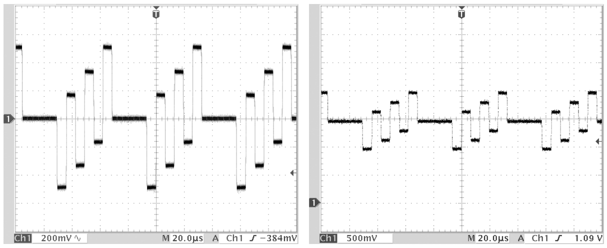
㉖ IC6601 - pin 5



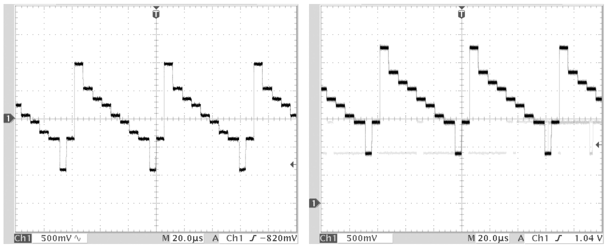
㉗ IC6601 - pin 25



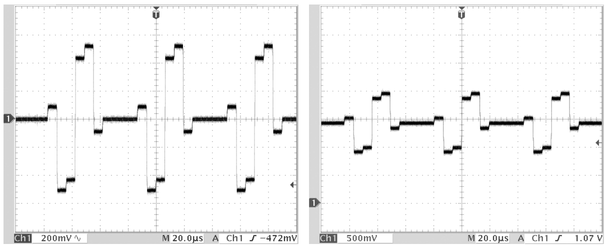
㉘ TP6402



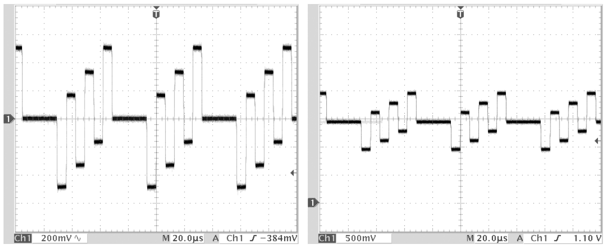
㉙ TP6403



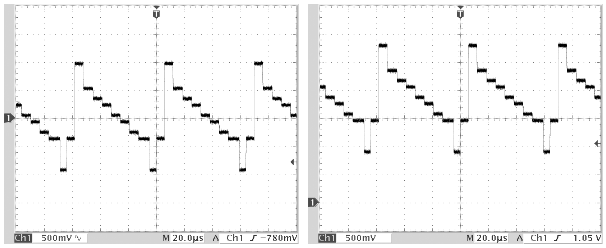
㉚ TP6404



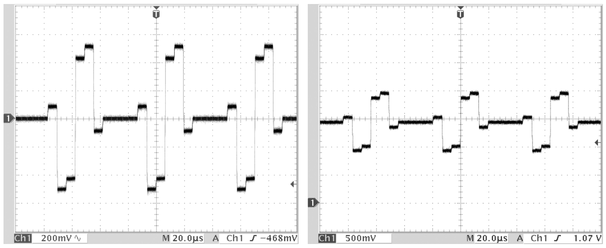
㉛ TP6604



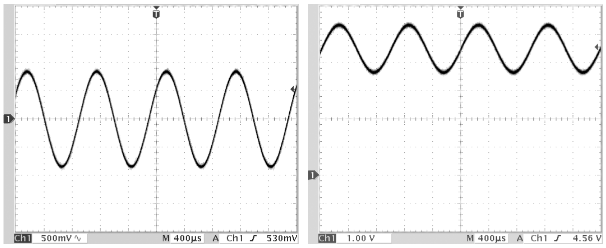
㉜ TP6605



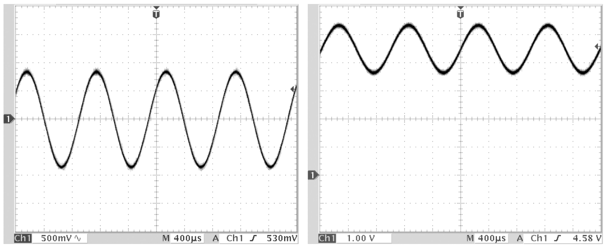
㉝ TP6606



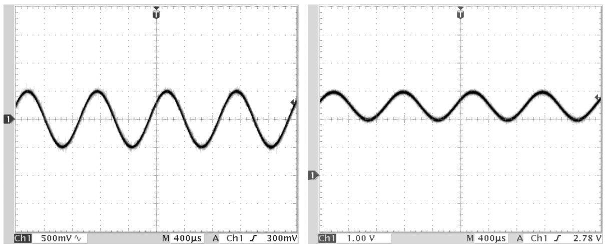
㉞ IC8003 - pin 3



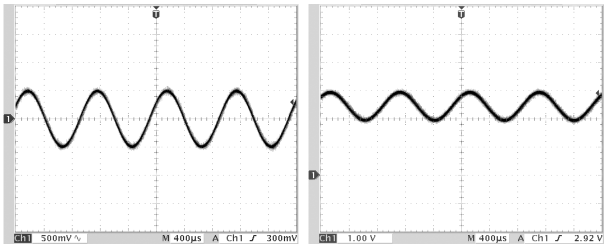
㉟ IC8003 - pin 13



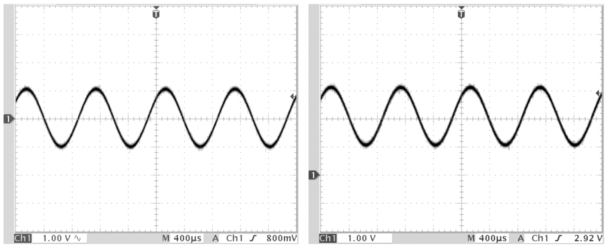
㊱ IC8006 - pin 7



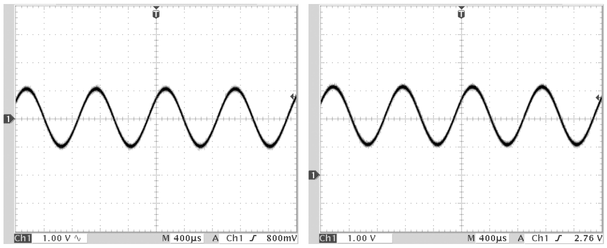
㊲ IC8006 - pin 10



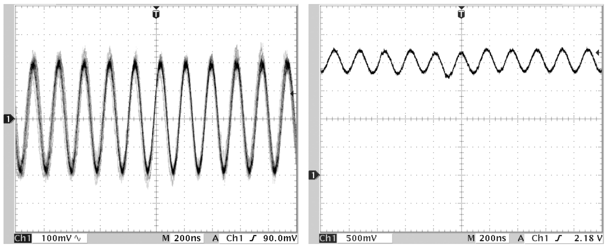
㊳ IC8007 - pin 1



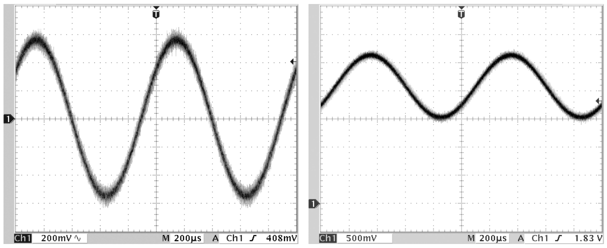
㊴ IC8007 - pin 7



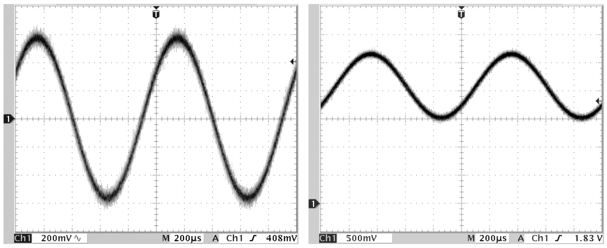
㊵ IC7501 - pin 12



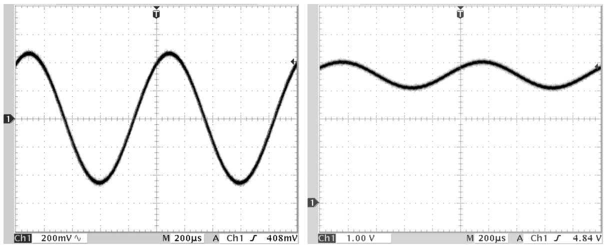
㊶ IC7502 - pin 26



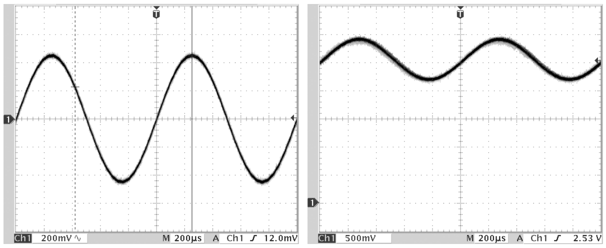
㊷ IC7502 - pin 27



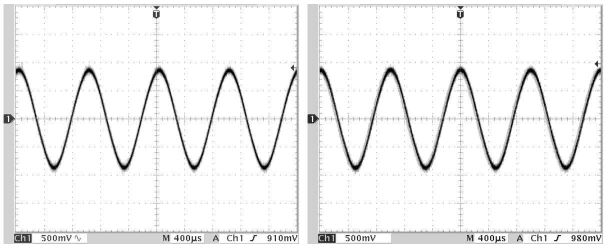
㊸ IC8002 - pin 62



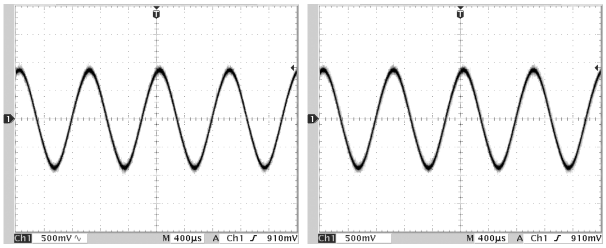
㊹ IC8002 - pin 64



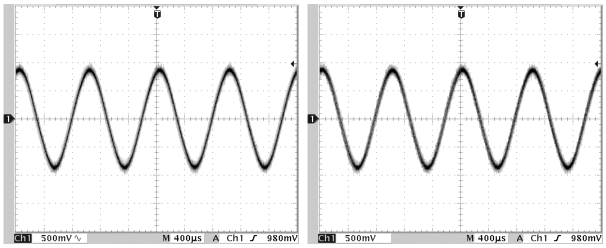
㊺ TP8667



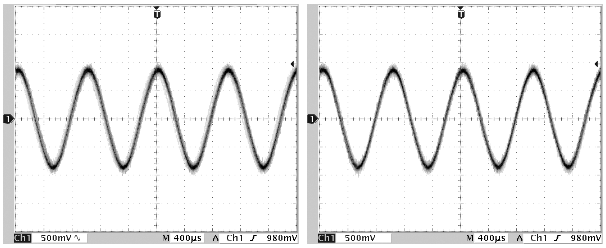
㊻ TP8668



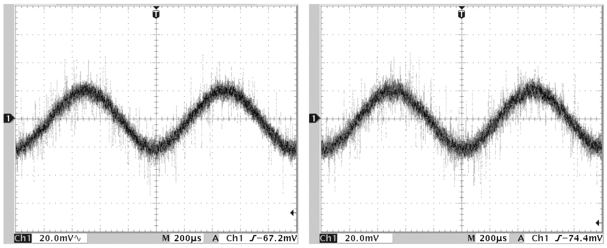
㊼ TP9301



㊽ TP9303



㊾ TP7710


1
1
Ch1 20.0mV∿
M 200µs A Ch1 ʃ−67.2mV
1
1
Ch1 20.0mV
M 200µs A Ch1 ʃ−74.4mV

7.1.2 DISASSEMBLY

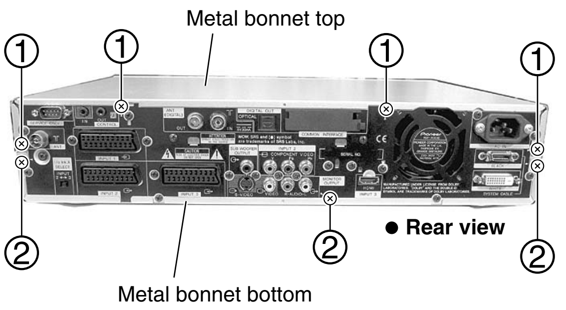
Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

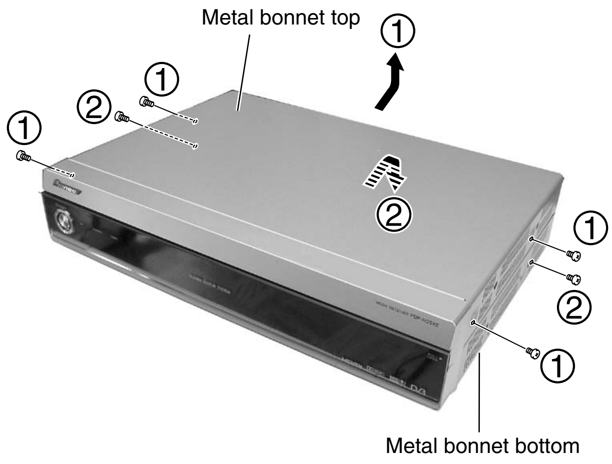
1 Metal bonnet top and metal bonnet bottom

① Remove the metal bonnet top by removing the eight screws.

② Remove the metal bonnet bottom by removing the five screws.

Caution :
Please remove it after pulling it in a rear direction because bonnet top and metal bonnet bottom are hard to reduce.


Metal bonnet top
①
①
①
①
● Rear view
②
②
②
Metal bonnet bottom


Metal bonnet top
①
①
②
①
②
①
②
①
Metal bonnet bottom

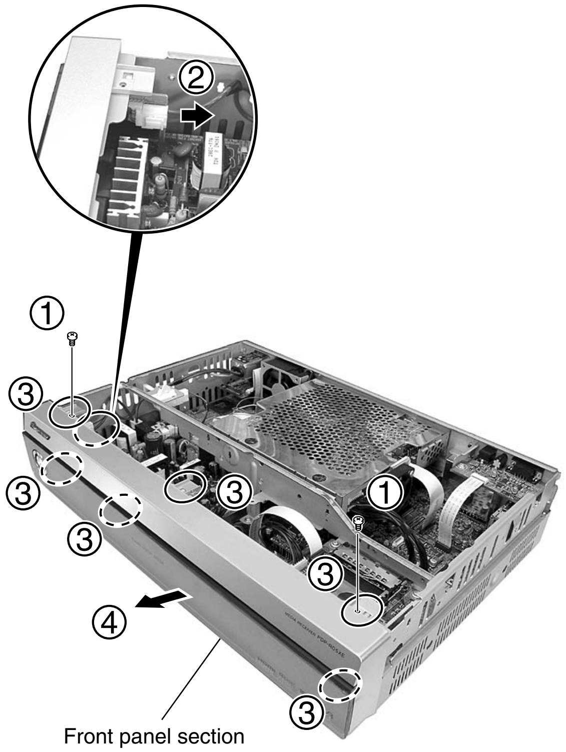
2 Front panel section

① Remove the two screws.

② Disconnect the one connector.

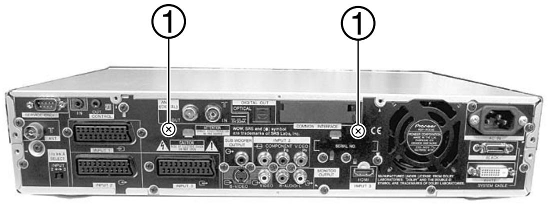
③ Unhook the six hooks.

④ Remove the front panel section.


②
①
③
③
③
③
①
③
④
③
Front panel section

3 TUNER BOARD Assy

① Remove the two screws.



● **Rear view**

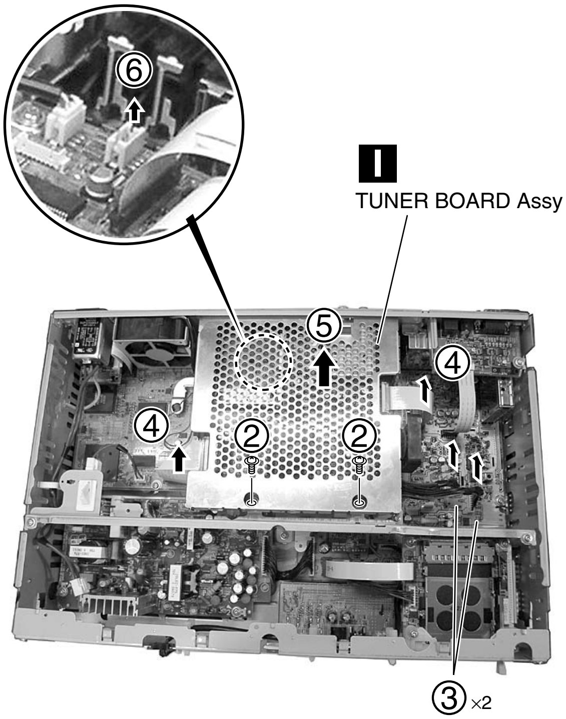
② Remove the two screws.

③ Disconnect the two connectors.

④ Disconnect the two flexible cables.

⑤ Remove the TUNER BOARD Assy.

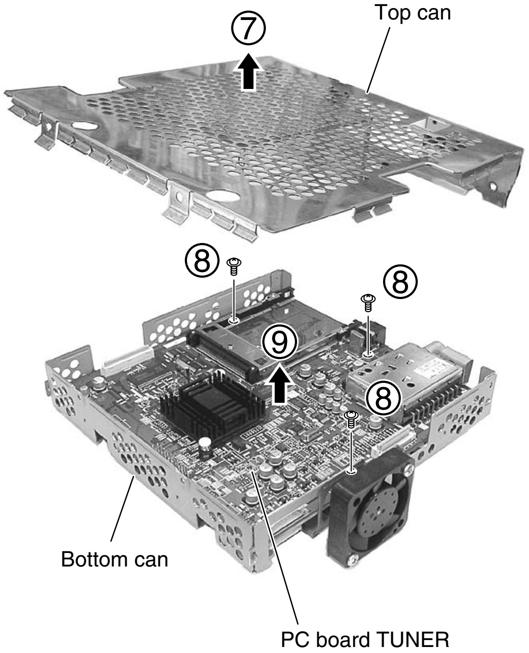
⑥ Disconnect the one connector.


⑥
I
TUNER BOARD Assy
⑤
④
④
②
②
③×2

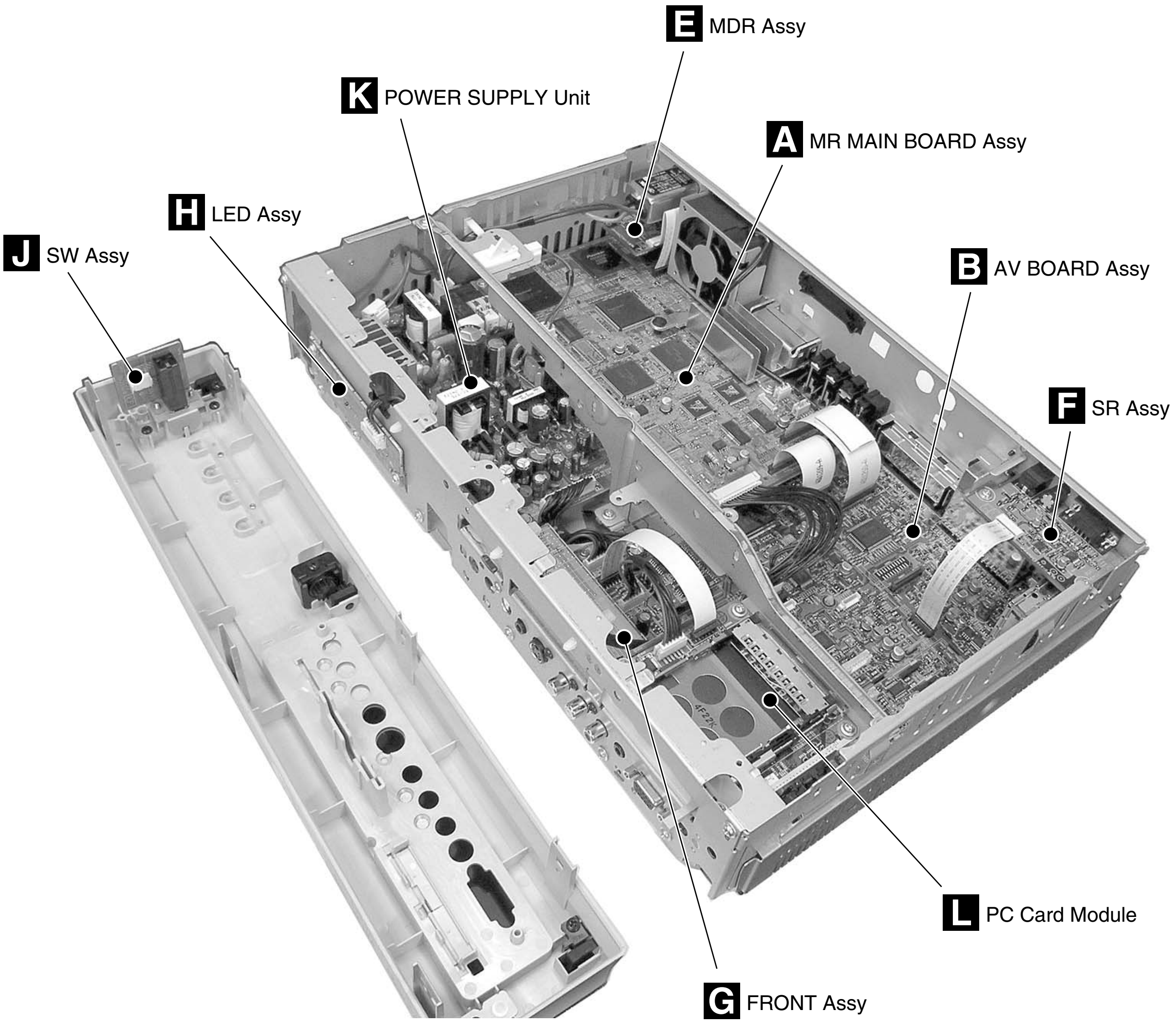
⑦ Remove the top can.

⑧ Remove the three screws.

⑨ Remove the PC board TUNER.


⑦
Top can
⑧
⑧
⑨
⑧
Bottom can
PC board TUNER

PCB Location

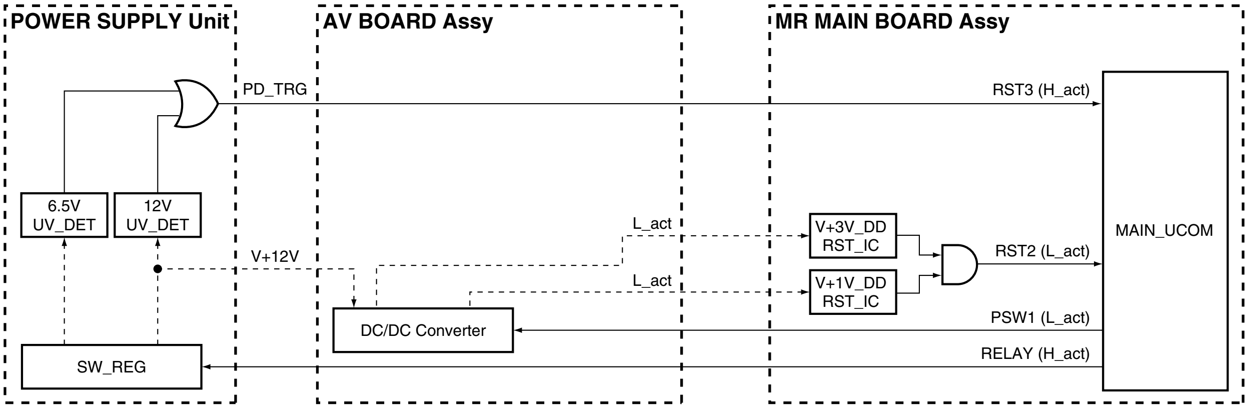

E MDR Assy
K POWER SUPPLY Unit
A MR MAIN BOARD Assy
H LED Assy
J SW Assy
B AV BOARD Assy
F SR Assy
L PC Card Module
G FRONT Assy

7.2 EXPLANATION

7.2.1 PROCESSING IN ABNORMALITY

Power supply and DC-DC converter

- **Circuit diagram**

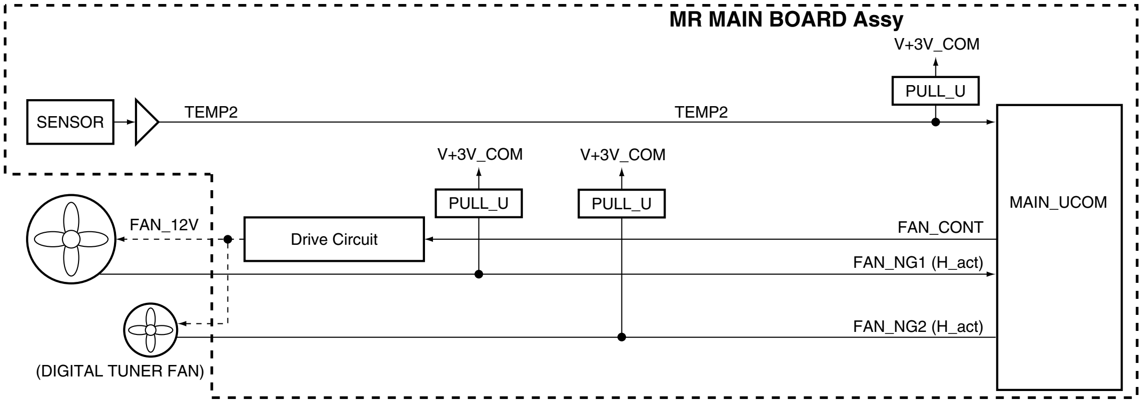

POWER SUPPLY Unit
AV BOARD Assy
MR MAIN BOARD Assy
PD_TRG
RST3 (H_act)
6.5V UV_DET
12V UV_DET
V+12V
L_act
L_act
V+3V_DD RST_IC
V+1V_DD RST_IC
RST2 (L_act)
MAIN_UCOM
PSW1 (L_act)
RELAY (H_act)
DC/DC Converter
SW_REG

- **Specifications for port monitoring**

Port Name	SD/PD Indication	Assigned Pin	Active
PD_MAIN (PD_TRG)	MR_PWR	41	Power-down with H
RST2	ASIC power supply	98	Shutdown with L

Fan and temperature sensor

- **Circuit diagram**

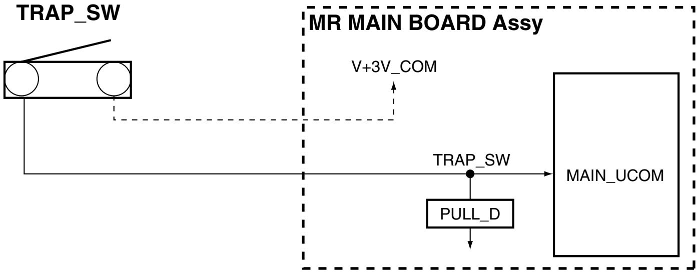

MR MAIN BOARD Assy
V+3V_COM
PULL_U
SENSOR
TEMP2
TEMP2
V+3V_COM
V+3V_COM
PULL_U
PULL_U
MAIN_UCOM
FAN_12V
Drive Circuit
FAN_CONT
FAN_NG1 (H_act)
FAN_NG2 (H_act)
(DIGITAL TUNER FAN)

- **Specifications for port monitoring**

Port Name	SD/PD Indication	Assigned Pin	Active
FAN_NG 1	FAN	31	Shutdown with H
FAN_NG 2	FAN	32	Shutdown with H
TEMP2	Abnormally high temperature in the MR	50	Shutdown when the value exceeds the predetermined value

TRAP_SW

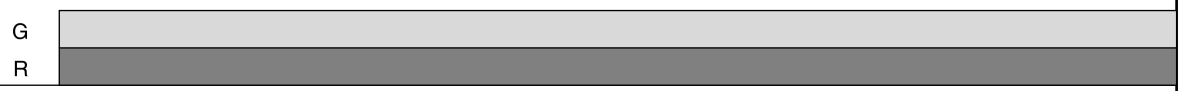
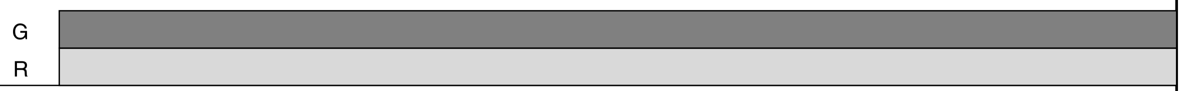
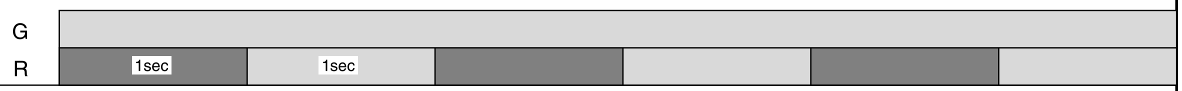
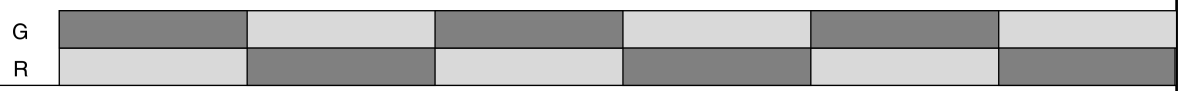
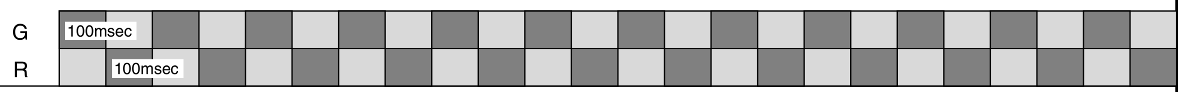
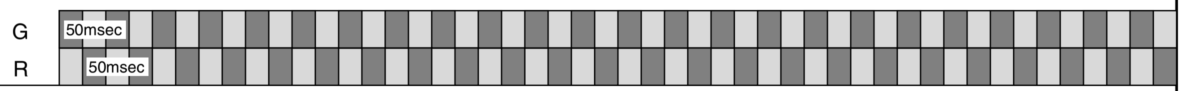
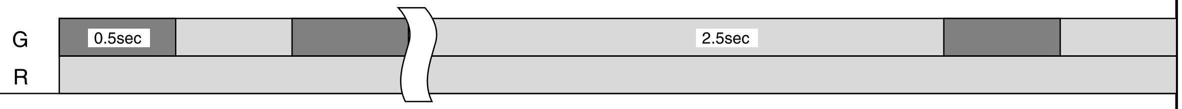
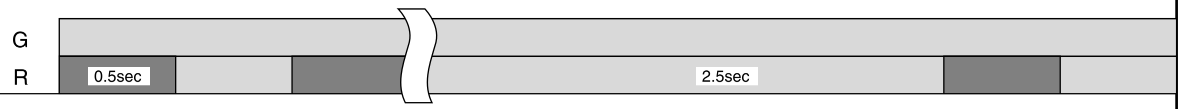
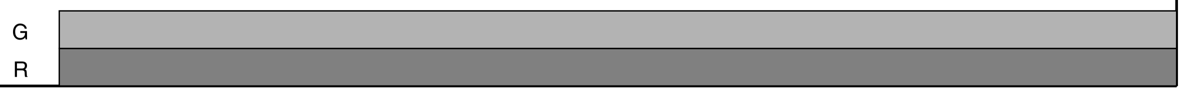
● Circuit diagram


TRAP_SW
MR MAIN BOARD Assy
V+3V_COM
TRAP_SW
MAIN_UCOM
PULL_D

● Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
TRAP_SW	Modification tried	30	OFF with L

LED-lighting patterns

Status of the Unit		LED-lighting Pattern
Standby, power management	Lit in red	
Power on	Lit in green	
PDP's power not on	Flashing in red (at 1-sec intervals)	 G R 1sec 1sec
System cable disconnected *	Flashing alternately in red and green (at 1-sec intervals)	
Waiting for start of rewriting by the microcomputer		 G R 100msec 100msec
Waiting for finish of rewriting by the microcomputer		 G R 50msec 50msec
Shutdown (circuit protection)	Flashing in green n times (initially at 0.5-sec intervals then 2.5-sec intervals)	 G R 0.5sec 2.5sec
Power-down (circuit protection)	Flashing in red for n times (initially at 0.5-sec intervals then 2.5-sec intervals)	 G R 0.5sec 2.5sec
TRAP switch operation		

* In this case, the red and green areas on the screen of the panel flash alternately.

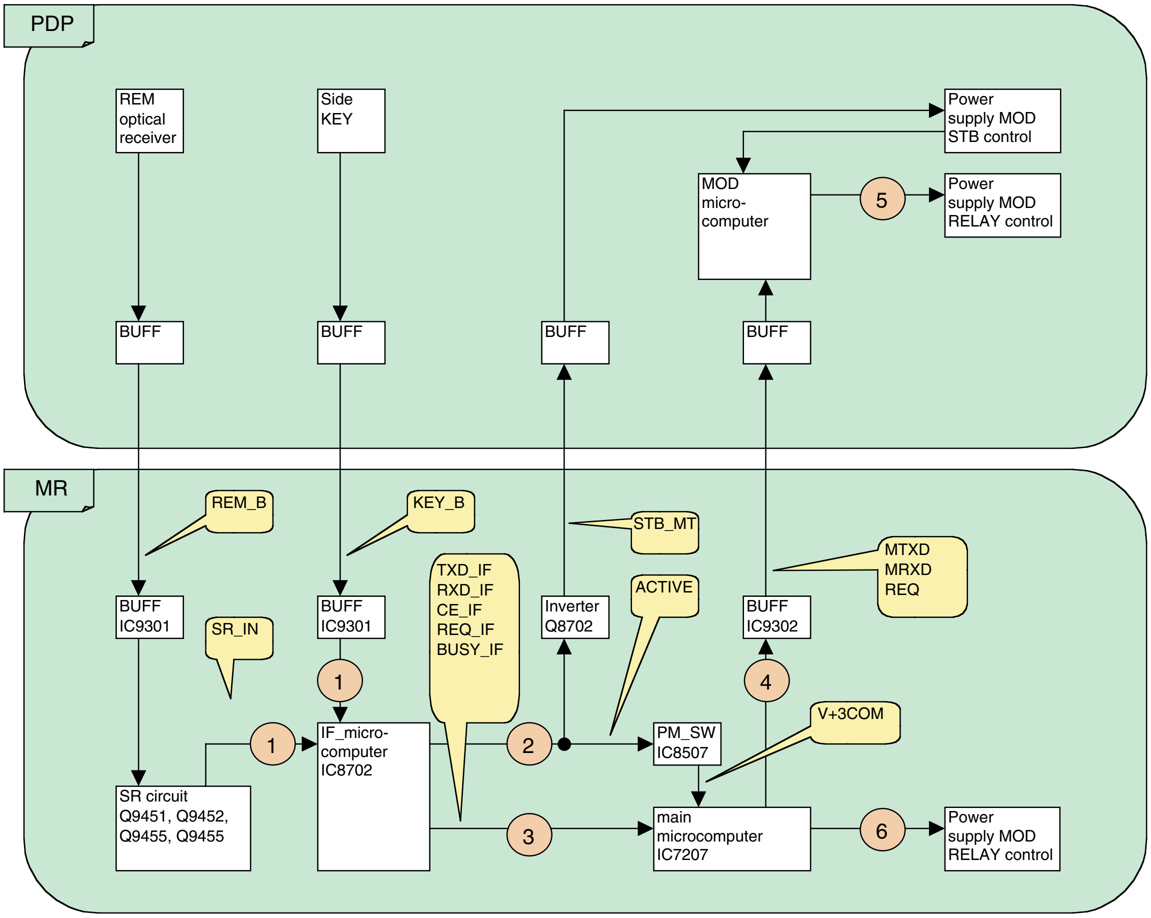
■ Defective points assumed from the number of times of LED flashing

No. of times of LED flashing				Category *1	Site detected as defective	Possible defective points (representative examples)	OSD when detected (warning message)
LEDs on the panel		LEDs on the MR					
RED	GRN	RED	GRN				
	Green 1	Red		SD	Panel drive IC	*2	None
	Green 2	Red			Module section IIC	*2	None
	Green 3	Red			Power decrease of DIGITAL-DC-DC	*2	None
	Green 4	Red			Panel having abnormally high temperature	*2	The power is shut down, because the internal temperature has risen. Check the temperature surrounding the PDP. (SD04)
	Green 5	Red			Short-circuiting of the speakers	*2	The power is shut down, because the protection circuit inside the unit is activated. Check if the speaker cables are short-circuited. (SD05)
Red			Green 6		Module microcomputer	Disconnection of the system cable Defective module microcomputer or its peripheral circuits of the panel (Refer to the service manual of the PDP-434PU or PDP-504PU.) Defective main microcomputer (IC7207) Failure in communication (TXD_MD, RXD_MD, REQ_MD) between the panel's module microcomputer and IC7207 (main microcomputer)	None
Red			Green 7		3-wire serial connection of the main section	Defective IC7004 or its peripheral circuits Failure in communication (TXD_IC, XD_IC2, CLK_IC2, IC2_CE, IC2_EMG) between IC7004 and IC7207 (main microcomputer) Defective IC7101 or its peripheral circuits Failure in communication (TXD_IC3, RXD_IC3, CLK_IC3, IC3_CE, IC3_REQ, IC3_BUSY) between IC7101 and IC7207 (main microcomputer)	None
Red			Green 8		IIC of the main section	Defective IC6107 (CD_MAIN) or its peripheral circuits Defective IC6255 (CD_SUB) or its peripheral circuits Defective IC6402 (AD_MAIN) or its peripheral circuits Defective IC6602 (AD_SUB) or its peripheral circuits Defective IC6881 (HDMI_2) or its peripheral circuits Defective IC6951 (BUS_SW) or its peripheral circuits Defective IC7401 (TX) or its peripheral circuits Defective U7501 (TU) or its peripheral circuits Defective U7502 (TU) or its peripheral circuits Defective IC8002 (AV_SW) or its peripheral circuits Defective IC8005 (RGB_SW) or its peripheral circuits Defective IC7205 (E2P) or its peripheral circuits Failure in communication (SCL_AV, SDA_AV, SCL_MAIN, SDA_MAIN, SCL_HDMI, SDA_HDMI, SCL_EP, SDA_EP) between one of the above devices and IC7207 (main microcomputer)	None
Red			Green 9		Main microcomputer	Defective IC7207 (main microcomputer) Defective flexible cable for communication between the MR MAIN BOARD Assy and the AV BOARD Assy Failure in communication (TXD_IF, RXD_IF, CLK_IF, IF_CE, IF_BUSY) between IC7207 (main microcomputer) and IC8702	None
Red			Green 10		Fan	Failure in the fan motor, or the fan stopped because of dust attached to the fan	None
Red			Green 11		MR or unit having abnormally high temperature	The Media Receiver or the unit being used at high temperature	The power is shut down, because the internal temperature has risen. Check the temperature surrounding the Media Receiver. (SD11)
Red			Green 12		Digital tuner (U.S. model)	Defective DTV tuner Failure in communication (TXD_DT, RXD_DT) between the digital tuner and IC8202 (main microcomputer)	None
Red			Green 13		ASIC power supply (DC-DC)	Defective U8502 (DD_CON) or short-circuiting elsewhere	None
Red			Green 14		IF_E2P	Defective IC8705 (IF_E2P) or its peripheral circuits	None
Red		Red 1		PD	MR PWR	Defective Power Supply Assy of the Media Receiver, or power short-circuiting in another Assy	None
Red 2		Red			POWER	*2	None
Red 3		Red			SCAN	*2	None
Red 4		Red			SCN-5V	*2	None
Red 5		Red			Y-DRIVE	*2	None
Red 6		Red			Y-DCDC	*2	None
Red 7		Red			Y-SUS	*2	None
Red 8		Red			ADRS	*2	None
Red 9		Red			X-DRIVE	*2	None
Red 10		Red			X-DCDC	*2	None
Red 11		Red			X-SUS	*2	None
Red 12		Red			D-DCDC	*2	None
Red 13		Red			IC4	*2	None

*1: Shutdown (SD) is a protective operation controlled by the microcomputer, and you can turn on the unit again using the remote control unit. Power-down (PD) is a protective operation activated by the circuitry and can be reset after AC power is off for about 1 minute.
*2: Refer to the service manual of the PDP-435PE or PDP-505PE.

7.2.2 SEQUENCE

R05 series Power-on sequence


PDP
REM optical receiver
Side KEY
Power supply MOD STB control
MOD micro-computer
5
Power supply MOD RELAY control
BUFF
BUFF
BUFF
BUFF
MR
REM_B
KEY_B
STB_MT
TXD_IF
RXD_IF
CE_IF
REQ_IF
BUSY_IF
ACTIVE
MTXD
MRXD
REQ
BUFF IC9301
SR_IN
BUFF IC9301
Inverter Q8702
BUFF IC9302
1
4
V+3COM
1
IF_micro-computer IC8702
2
PM_SW IC8507
SR circuit Q9451, Q9452, Q9455, Q9455
3
main microcomputer IC7207
6
Power supply MOD RELAY control

REM_B Comment in the balloon is the reference signal name.
Please confirm the wiring number of PDP side with the service manual of PDP side.

① : Remote controller signal (or, KEY signal) is input into IF microcomputer.
② : IF microcomputer supplies the power supply to Main microcomputer and MOD microcomputer.
③ : IF microcomputer communicates the operation information of Remote controller (or KEY) to Main microcomputer.
④ : Main microcomputer sends in the activation order to MOD microcomputer.
⑤ : MOD microcomputer controls the relay of PDP power supply MOD, and activate the power supply of PDP side.
⑥ : Main microcomputer controls the relay of MR power supply MOD, and activate the power supply of MR side.

7.3 PARTS

7.3.1 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

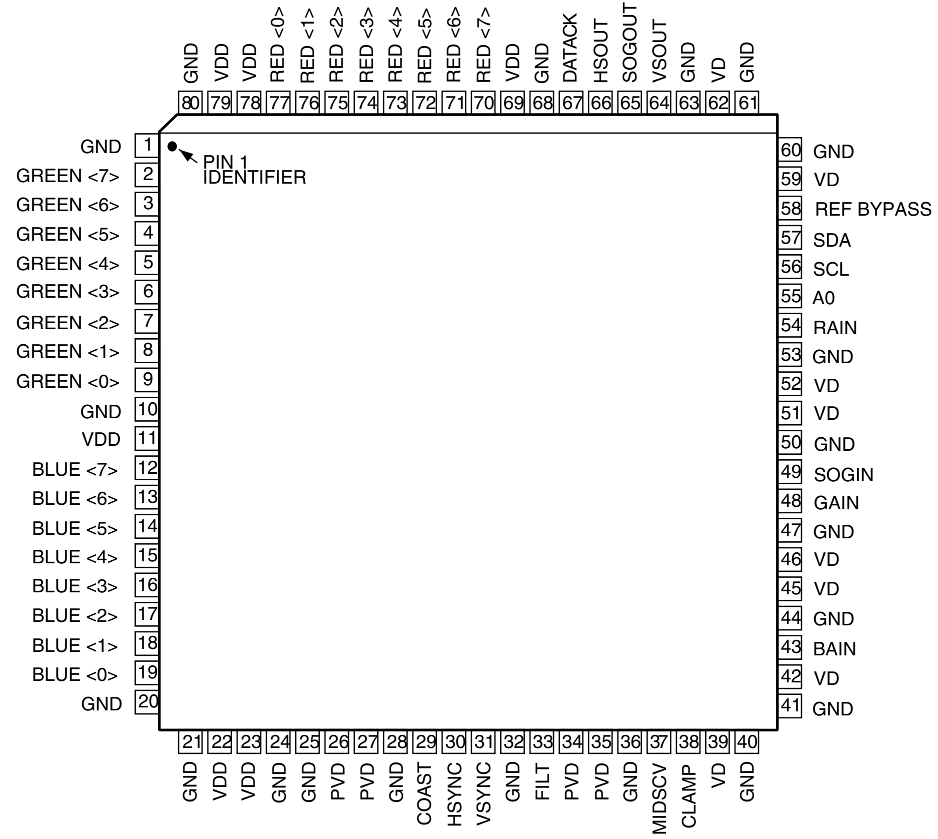
● List of IC

AD80058-K, SM5301BS, BA7078AF, SII9993CTG100, HY57V643220CT-7 (or K4S643232H-TC60-K), MBM29PL3200BE70PFV, SII170BCLG64, CXA2069Q, MSP3417G, TDA9818TS, SDA6000

■ AD80058-K (MR MAIN BOARD ASSY : IC6402, IC6602)

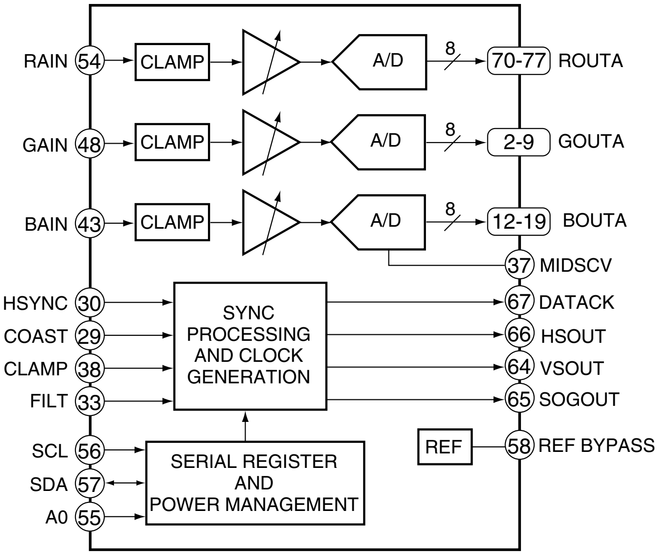
- 110 MSPS Analog Interface

● Pin Arrangement (Top view)



GND 80
VDD 79
VDD 78
RED <0> 77
RED <1> 76
RED <2> 75
RED <3> 74
RED <4> 73
RED <5> 72
RED <6> 71
RED <7> 70
VDD 69
GND 68
DATACK 67
HSOUT 66
SOGOUT 65
VSOUT 64
GND 63
VD 62
GND 61
GND 1
GREEN <7> 2
GREEN <6> 3
GREEN <5> 4
GREEN <4> 5
GREEN <3> 6
GREEN <2> 7
GREEN <1> 8
GREEN <0> 9
GND 10
VDD 11
BLUE <7> 12
BLUE <6> 13
BLUE <5> 14
BLUE <4> 15
BLUE <3> 16
BLUE <2> 17
BLUE <1> 18
BLUE <0> 19
GND 20
PIN 1 IDENTIFIER
60 GND
59 VD
58 REF BYPASS
57 SDA
56 SCL
55 A0
54 RAIN
53 GND
52 VD
51 VD
50 GND
49 SOGIN
48 GAIN
47 GND
46 VD
45 VD
44 GND
43 BAIN
42 VD
41 GND
21 GND
22 VDD
23 VDD
24 GND
25 GND
26 PVD
27 PVD
28 GND
29 COAST
30 HSYNC
31 VSYNC
32 GND
33 FILT
34 PVD
35 PVD
36 GND
37 MIDSCV
38 CLAMP
39 VD
40 GND

● Block Diagram



RAIN 54
GAIN 48
BAIN 43
CLAMP
CLAMP
CLAMP
A/D
A/D
A/D
8
8
8
70-77 ROUTA
2-9 GOUTA
12-19 BOUTA
37 MIDSCV
HSYNC 30
COAST 29
CLAMP 38
FILT 33
SYNC PROCESSING AND CLOCK GENERATION
67 DATACK
66 HSOUT
64 VSOUT
65 SOGOUT
REF
58 REF BYPASS
SCL 56
SDA 57
A0 55
SERIAL REGISTER AND POWER MANAGEMENT

● Pin Function

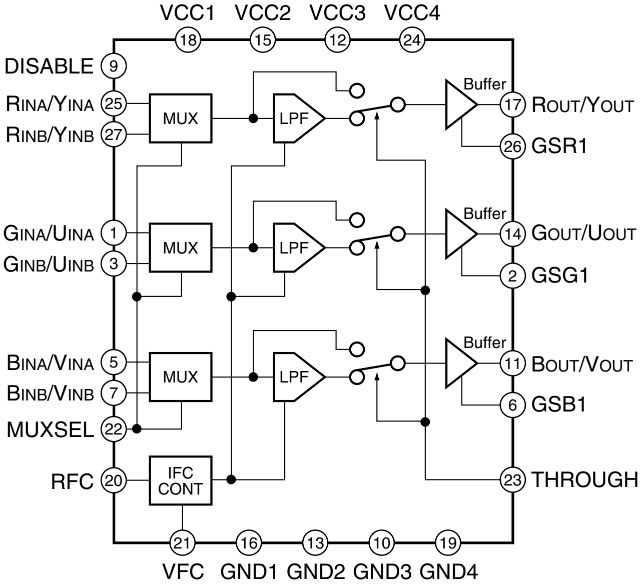
No.	Pin Name	I/O	Pin Function
1	GND	–	Ground
2	GREEN 7	O	Converter Green output (MSB)
3	GREEN 6	O	Converter Green output
4	GREEN 5	O	Converter Green output
5	GREEN 4	O	Converter Green output
6	GREEN 3	O	Converter Green output
7	GREEN 2	O	Converter Green output
8	GREEN 1	O	Converter Green output
9	GREEN 0	O	Converter Green output
10	GND	–	Ground
11	VDD	–	Power supply (3.3V)
12	BLUE 7	O	Converter Blue output (MSB)
13	BLUE 6	O	Converter Blue output
14	BLUE 5	O	Converter Blue output
15	BLUE 4	O	Converter Blue output
16	BLUE 3	O	Converter Blue output
17	BLUE 2	O	Converter Blue output
18	BLUE 1	O	Converter Blue output
19	BLUE 0	O	Converter Blue output
20	GND	–	Ground
21	GND	–	Ground
22	VDD	–	Power supply (3.3V)
23	VDD	–	Power supply (3.3V)
24	GND	–	Ground
25	GND	–	Ground
26	PVD	–	PLL power supply (3.3V)
27	PVD	–	PLL power supply (3.3V)
28	GND	–	Ground
29	COAST	I	PLL COAST signal input
30	HSYNC	I	Horizontal sync. input
31	VSYNC	I	Vertical sync. input
32	GND	–	Ground
33	FILT	–	External filter connection pin for built-in PLL
34	PVD	–	PLL power supply (3.3V)
35	PVD	–	PLL power supply (3.3V)
36	GND	–	Ground
37	MIDSCV	–	Internal middle scale voltage bias
38	CLAMP	I	Clamp input (External clamp signal)
39	VD	–	Analog power supply (3.3V)
40	GND	–	Ground
41	GND	–	Ground
42	VD	–	Analog power supply (3.3V)
43	BAIN	I	Analog input for converter B
44	GND	–	Ground
45	VD	–	Analog power supply (3.3V)

No.	Pin Name	I/O	Pin Function
46	VD	–	Analog power supply (3.3V)
47	GND	–	Ground
48	GAIN	I	Analog input for converter G
49	SOGIN	I	Input for Sync-on Green
50	GND	–	Ground
51	VD	–	Analog power supply (3.3V)
52	VD	–	Analog power supply (3.3V)
53	GND	–	Ground
54	RAIN	I	Analog input for converter R
55	A0	I	Address input 1 of serial port
56	SCL	I	Data clock (max. 100kHz) of serial port
57	SDA	I/O	Data input/output of serial port
58	REF BYPASS	–	Internal reference bypass
59	VD	–	Analog power supply (3.3V)
60	GND	–	Ground
61	GND	–	Ground
62	VD	–	Analog power supply (3.3V)
63	GND	–	Ground
64	VSOUT	O	VSYNC output (phasing with DATACLK)
65	SOGOUT	O	Sync-on-Green slicer output
66	HSOUT	O	HSYNC output (phasing with DATACLK)
67	DATACLK	O	Data input/output clock
68	GND	–	Ground
69	VDD	–	Power supply (3.3V)
70	RED 7	O	Converter Red output (MSB)
71	RED 6	O	Converter Red output
72	RED 5	O	Converter Red output
73	RED 4	O	Converter Red output
74	RED 3	O	Converter Red output
75	RED 2	O	Converter Red output
76	RED 1	O	Converter Red output
77	RED 0	O	Converter Red output
78	VDD	–	Power supply (3.3V)
79	VDD	–	Power supply (3.3V)
80	GND	–	Ground

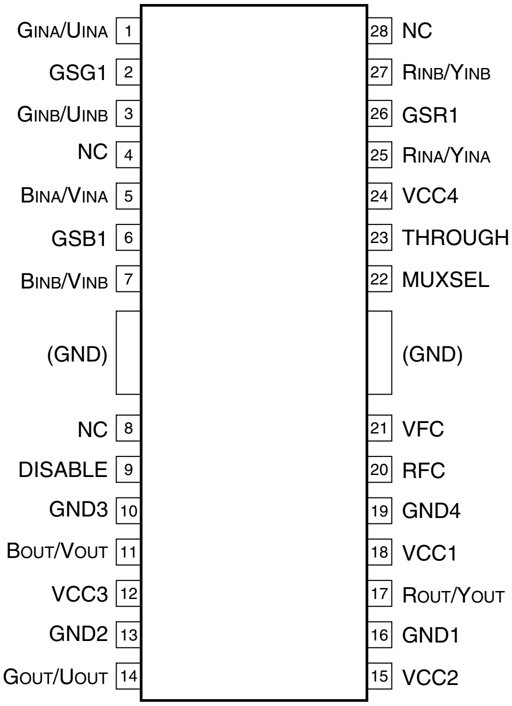
■ SM5301BS (MR MAIN BOARD ASSY : IC6401, IC6601)

- Video Filter

● Block Diagram


VCC1
VCC2
VCC3
VCC4
18
15
12
24
DISABLE 9
RINA/YINA 25
RINB/YINB 27
MUX
LPF
Buffer
17 ROUT/YOUT
26 GSR1
GINA/UINA 1
GINB/UINB 3
MUX
LPF
Buffer
14 GOUT/UOUT
2 GSG1
BINA/VINA 5
BINB/VINB 7
MUXSEL 22
MUX
LPF
Buffer
11 BOUT/VOUT
6 GSB1
RFC 20
IFC CONT
23 THROUGH
21
16
13
10
19
VFC
GND1
GND2
GND3
GND4

● Pin Arrangement (Top view)


GINA/UINA 1
GSG1 2
GINB/UINB 3
NC 4
BINA/VINA 5
GSB1 6
BINB/VINB 7
(GND)
NC 8
DISABLE 9
GND3 10
BOUT/VOUT 11
VCC3 12
GND2 13
GOUT/UOUT 14
28 NC
27 RINB/YINB
26 GSR1
25 RINA/YINA
24 VCC4
23 THROUGH
22 MUXSEL
(GND)
21 VFC
20 RFC
19 GND4
18 VCC1
17 ROUT/YOUT
16 GND1
15 VCC2

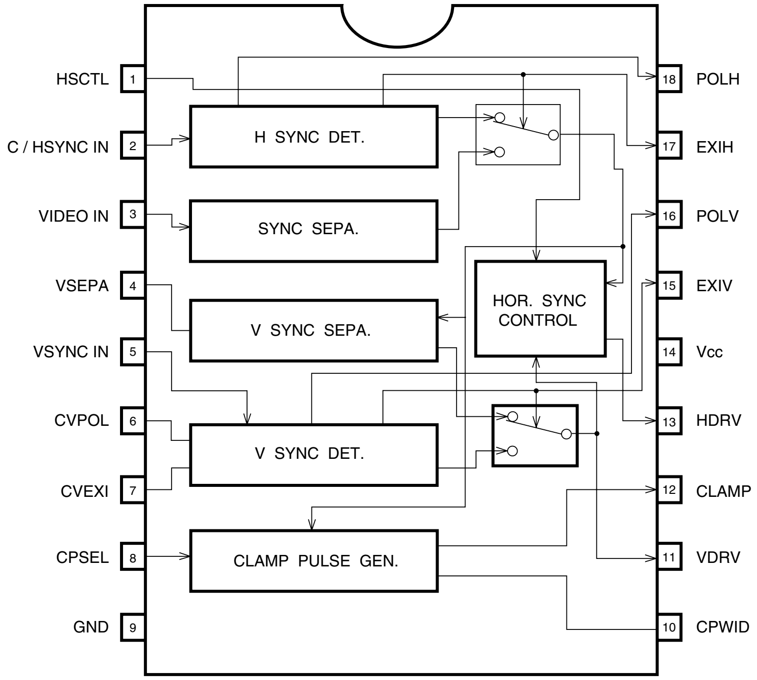
● Pin Function

No.	Pin Name	I/O	Pin Function
1	GINA/UINA	I	Analog GINA or UINA signal input. Sync signal is input on SYNCIN pin.
2	GSG1	I	GOUT/UOUT output buffer gain set input
3	GINB/UINB	I	Analog GINB or UINB signal input. Sync signal is input on SYNCIN pin.
4	(NC)	–	No connection
5	BINA/VINA	I	Analog BINA or VINA signal input. Sync signal is input on SYNCIN pin.
6	GSB1	I	BOUT/VOUT output buffer gain set input
7	BINB/VINB	I	Analog BINB or VINB signal input. Sync signal is input on SYNCIN pin.
8	(NC)	–	No connection
9	DISABLE	I	Power save function. Built-in pull-down resistor. L : Enable H : Disable (Output pins: ROUT/YOUT, GOUT/UOUT, and BOUT/VOUT are high impedance.)
10	GND3	–	Analog ground
11	BOUT/VOUT	O	B/V signal output
12	VCC3	–	Analog 5V supply
13	GND2	–	Analog ground
14	GOUT/UOUT	O	G/U signal output
15	VCC2	–	Analog 5V supply
16	GND1	–	Analog ground
17	ROUT/YOUT	O	R/Y signal output
18	VCC1	–	Analog 5V supply
19	GND4	–	Analog ground
20	RFC	–	LPF (lowpass filter) cutoff frequency setting resistor connection
21	VFC	I	LPF (lowpass filter) cutoff frequency setting voltage input
22	MUXSEL	I	Input select signal. Built-in pull-down resistor. L : XINA pin select H : XINB pin select
23	THROUGH	I	Filter through Built-in pull-down resistor. L : Filter function H : Filter through (buffer only)
24	VCC4	–	Analog 5V supply
25	RINA/YINA	I	Analog RINA or YINA signal input. Sync signal is input on SYNCIN pin.
26	GSR1	I	ROUT/YOUT output buffer gain set input
27	RINB/YINB	I	Analog RINB or YINB signal input. Sync signal is input on SYNCIN pin.
28	(NC)	–	No connection

■ BA7078AF (MR MAIN BOARD ASSY : IC6404, IC6604)

- Multi Sync Separation IC

● Block Diagram


HSCTL
1
C / HSYNC IN
2
VIDEO IN
3
VSEPA
4
VSYNC IN
5
CVPOL
6
CVEXI
7
CPSEL
8
GND
9
POLH
18
EXIH
17
POLV
16
EXIV
15
Vcc
14
HDRV
13
CLAMP
12
VDRV
11
CPWID
10
H SYNC DET.
SYNC SEPA.
V SYNC SEPA.
HOR. SYNC CONTROL
V SYNC DET.
CLAMP PULSE GEN.

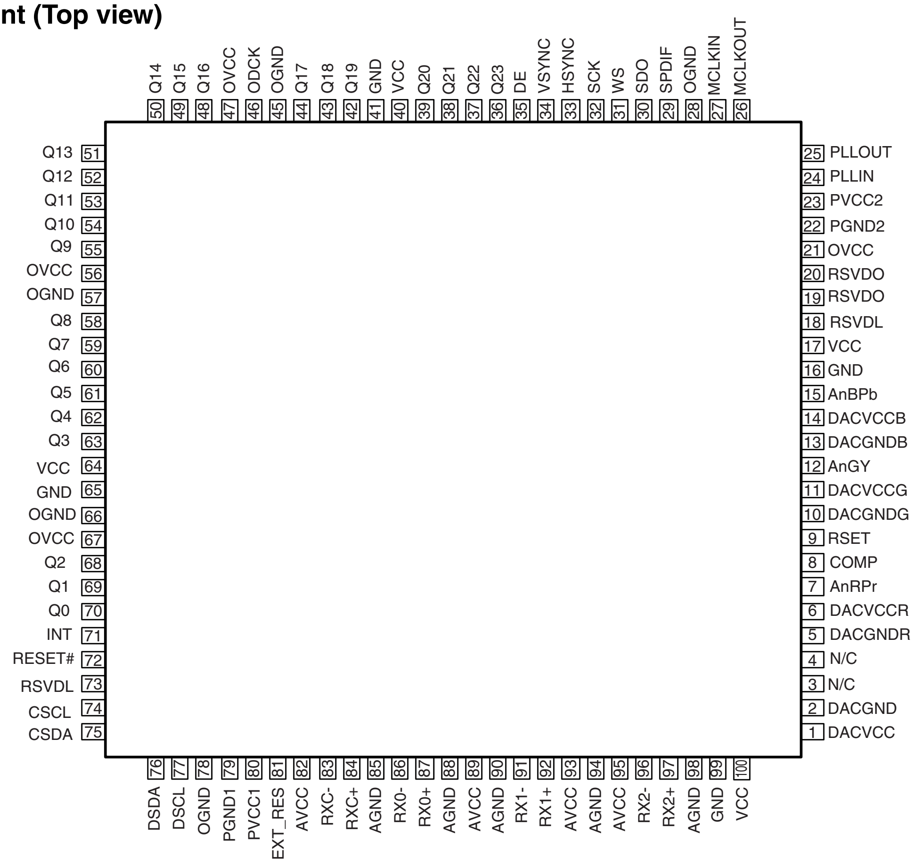
● Pin Function

No.	Pin Name	Pin Function
1	HSCTL	HDRV output Used to select whether to output the VDRV section of the HDRV output signal. High : VDRV section of HDRV is output Low : VDRV section of HDRV is not output
2	C/HSYNC IN	Composite sync / H SYNC input Input either the composite synchronization signal or the horizontal synchronization signal. Input is clamped, and is initiated by capacitor coupling.
3	VIDEO IN	SYNC ON VIDEO input Inputs the SYNC ON VIDEO signal(green). Input is sink chip clamped. Input is initiated by capacitor coupling.
4	VSEPA	f-V conversion Converts the horizontal synchronization signal frequency into a voltage. The voltage generated is proportional to the frequency of the horizontal synchronization signal. Attach a 0.56 μF capacitor between the ground pins.
5	VSYNC IN	V SYNC input Inputs the vertical synchronization signal.
6	CVPOL	Vertical polarity integration Integrates the vertical synchronization signal polarity detection circuit. Attach a 1.5 μF capacitor between this pin and the ground.
7	CVEXI	Vertical existence integration Integrates the vertical synchronization signal existence detection circuit. Attach a 1 μF capacitor between this pin and the ground.
8	CPSEL	Setting the clamp position Used to set the clamp pulse generation position to either the front or back edge of HSYNC High : The front edge is the generation position Open : Composite / H SYNC IN : The front edge is the generation position VIDEO IN : The back edge is the generation position Low : The back edge is the generation position
9	GND	Ground
10	CPWID	Setting the clamp pulse width Sets the clamp pulse width according to the attached time constant. Attach a resistor between this pin and VCC and, a capacitor between this pin and GND. When R = 3.9kΩ and C = 100pF, pulse width is approximately 400 ns. Set the resistor to register an abnormality at 1kΩ.
11	VDRV	VDRV output Outputs the vertical synchronization signal. The output signal has positive polarity.
12	CLAMP	Clamp output Outputs the clamp pulse generated from the vertical synchronization signal. The output signal has a positive polarity.
13	HDRV	HDRV output Outputs the clamp pulse generated from the horizontal synchronization signal. The output signal has positive polarity.
14	Vcc	Power supply
15	EXIV	Vertical existence output Indecates whether the vertical synchronization signal exists.
16	POLV	Vertical polarity output Indicates the polarity of the vertical synchronization signal.
17	EXIH	Horizontal existence output Indicates whether the horizontal synchronization signal exists.
18	POLH	Horizontal polarity output Indicates the polarity of the horizontal synchronization signal.

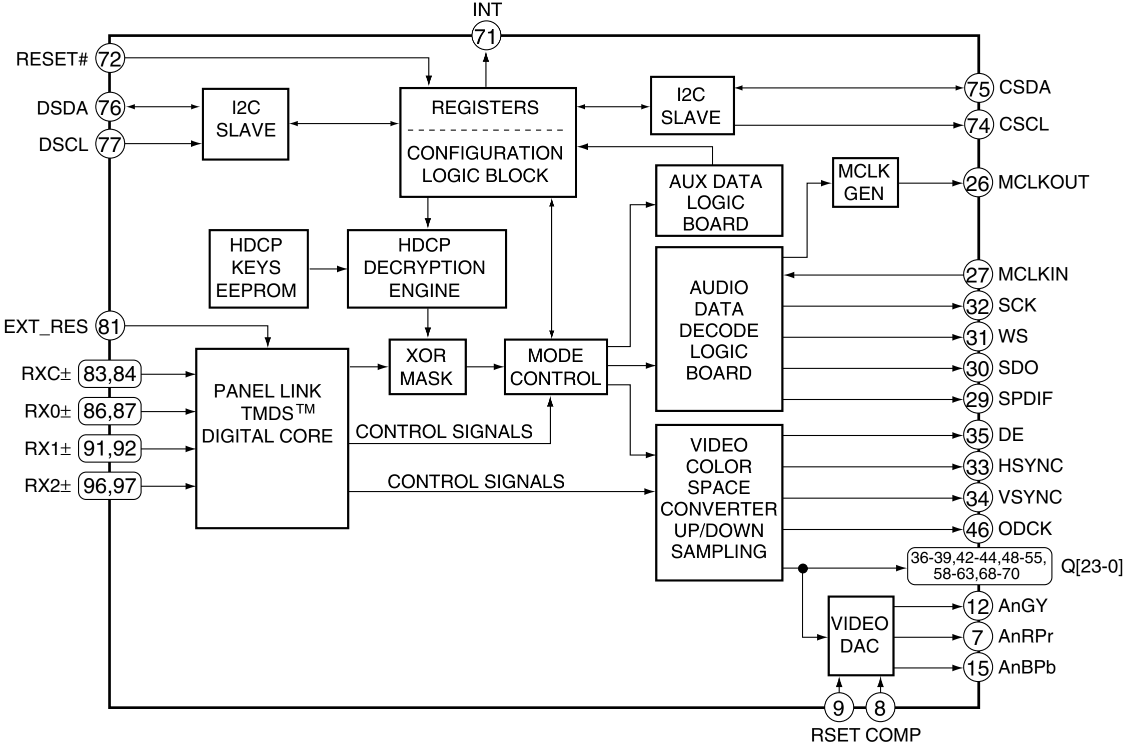
■ SII9993CTG100 (MR MAIN BOARD ASSY : IC6881, IC6801)

- HDCP Panel Link Receiver

● Pin Arrangement (Top view)


50 Q14
49 Q15
48 Q16
47 OVCC
46 ODCK
45 OGND
44 Q17
43 Q18
42 Q19
41 GND
40 VCC
39 Q20
38 Q21
37 Q22
36 Q23
35 DE
34 VSYNC
33 HSYNC
32 SCK
31 WS
30 SDO
29 SPDIF
28 OGND
27 MCLKIN
26 MCLKOUT
Q13 51
Q12 52
Q11 53
Q10 54
Q9 55
OVCC 56
OGND 57
Q8 58
Q7 59
Q6 60
Q5 61
Q4 62
Q3 63
VCC 64
GND 65
OGND 66
OVCC 67
Q2 68
Q1 69
Q0 70
INT 71
RESET# 72
RSVDL 73
CSCL 74
CSDA 75
25 PLLOUT
24 PLLIN
23 PVCC2
22 PGND2
21 OVCC
20 RSVDO
19 RSVDO
18 RSVDL
17 VCC
16 GND
15 AnBPb
14 DACVCCB
13 DACGNDB
12 AnGY
11 DACVCCG
10 DACGNDG
9 RSET
8 COMP
7 AnRPr
6 DACVCCR
5 DACGNDR
4 N/C
3 N/C
2 DACGND
1 DACVCC
76 DSDA
77 DSCL
78 OGND
79 PGND1
80 PVCC1
81 EXT_RES
82 AVCC
83 RXC-
84 RXC+
85 AGND
86 RX0-
87 RX0+
88 AGND
89 AVCC
90 AGND
91 RX1-
92 RX1+
93 AVCC
94 AGND
95 AVCC
96 RX2-
97 RX2+
98 AGND
99 GND
100 VCC

● Block Diagram


INT
71
RESET# 72
DSDA 76
DSCL 77
I2C SLAVE
REGISTERS
CONFIGURATION LOGIC BLOCK
I2C SLAVE
75 CSDA
74 CSCL
AUX DATA LOGIC BOARD
MCLK GEN
26 MCLKOUT
HDCP KEYS EEPROM
HDCP DECRYPTION ENGINE
AUDIO DATA DECODE LOGIC BOARD
27 MCLKIN
32 SCK
31 WS
30 SDO
29 SPDIF
EXT_RES 81
XOR MASK
MODE CONTROL
RXC± 83,84
RX0± 86,87
RX1± 91,92
RX2± 96,97
PANEL LINK TMDS™ DIGITAL CORE
CONTROL SIGNALS
CONTROL SIGNALS
VIDEO COLOR SPACE CONVERTER UP/DOWN SAMPLING
35 DE
33 HSYNC
34 VSYNC
46 ODCK
36-39,42-44,48-55, 58-63,68-70
Q[23-0]
VIDEO DAC
12 AnGY
7 AnRPr
15 AnBPb
9
8
RSET COMP

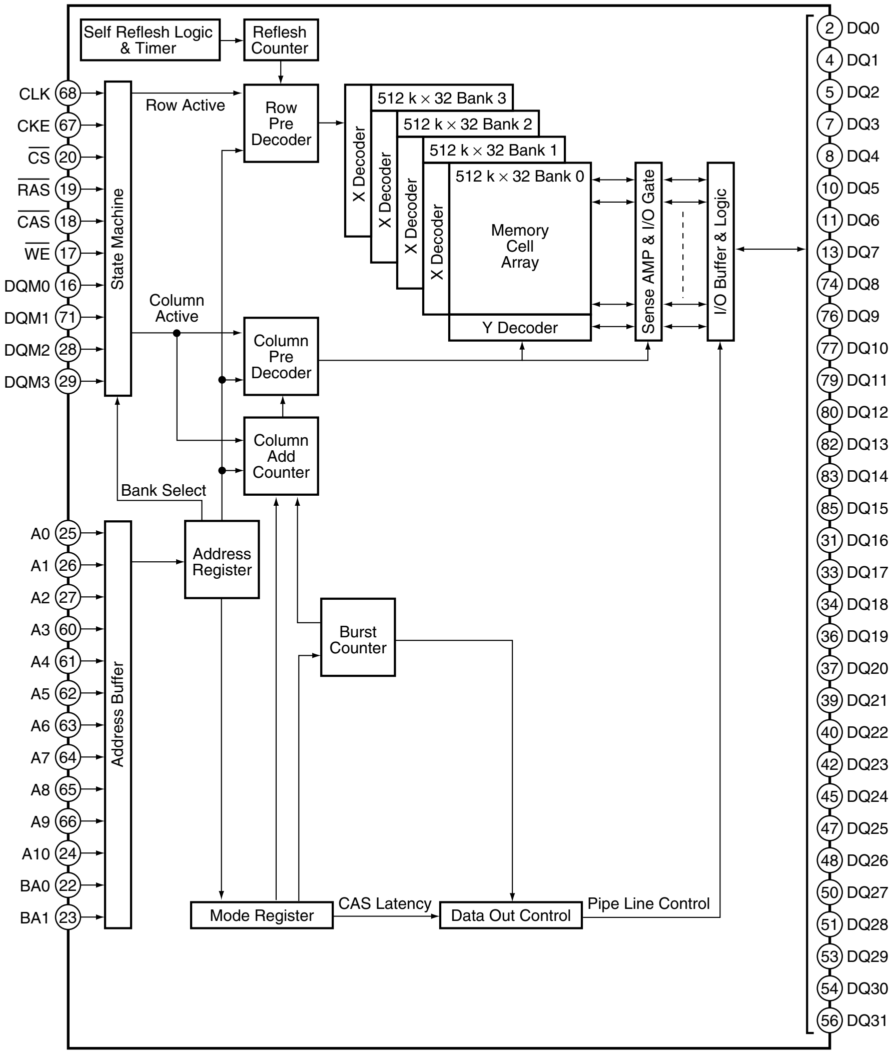
● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	DACVCC	–	DAC power supply (3.3V)	51	Q13	O	24-bit output pixel data bus
2	DACGND	–	DAC ground	52	Q12	O	24-bit output pixel data bus
3	N/C	–	No connection	53	Q11	O	24-bit output pixel data bus
4	N/C	–	No connection	54	Q10	O	24-bit output pixel data bus
5	DACGNDR	–	DAC Red ground	55	Q9	O	24-bit output pixel data bus
6	DACVCCR	–	DAC Red power supply (3.3V)	56	OVCC	–	Output bus power supply (3.3V)
7	AnRPr	O	Red, Pr output of analog video	57	OGND	–	Output bus ground
8	COMP	I	For reference amp. correction of DAC inside	58	Q8	O	24-bit output pixel data bus
9	RSET	I	Full scale adjustment resistor input	59	Q7	O	24-bit output pixel data bus
10	DACGNDG	–	DAC Green ground	60	Q6	O	24-bit output pixel data bus
11	DACVCCG	–	DAC Green power supply (3.3V)	61	Q5	O	24-bit output pixel data bus
12	AnGY	O	Green, Y output of analog video	62	Q4	O	24-bit output pixel data bus
13	DACGNDB	–	DAC Blue ground	63	Q3	O	24-bit output pixel data bus
14	DACVCCB	–	DAC Blue power supply (3.3V)	64	VCC	–	Digital power supply (3.3V)
15	AnBPb	O	Blue, Pb output of analog video	65	GND	–	Digital ground
16	GND	–	Digital ground	66	OGND	–	Output bus ground
17	VCC	–	Digital power supply (3.3V)	67	OVCC	–	Output bus power supply (3.3V)
18	RSVDL	I	Reserved Fixed to low.	68	Q2	O	24-bit output pixel data bus
19	RSVDD	O	Reserved No connection	69	Q1	O	24-bit output pixel data bus
20	RSVDD	O	Reserved No connection	70	Q0	O	24-bit output pixel data bus
21	OVCC	–	Output bus power supply (3.3V)	71	INT	O	Interruption output
22	PGND2	–	Audio PLL ground	72	RESET#	I	Reset Activ low.
23	PVCC2	–	Audio PLL power supply (3.3V)	73	RSVDL	I	Reserved Fixed to low.
24	PLLIN	I/O	PLL filter input	74	CSCL	I	Configuration I2C clock
25	PLLOUT	I/O	PLL filter output	75	CSDA	I/O	Configuration I2C data
26	MCCLKOUT	O	Audio master clock output	76	DSDA	I/O	DDC I2C data
27	MCCLKIN	I	Reference audio master clock input	77	DSCL	I	DDC I2C clock
28	OGND	–	Output bus ground	78	OGND	–	Output bus ground
29	SPDIF	O	SPDIF audio output	79	PGND1	–	PLL ground
30	SDO	O	I2S serial data output	80	PVCC1	–	PLL power supply (3.3V)
31	WS	O	I2S word selecting output	81	EXT_RES	I	Input impedance adjustment
32	SCK	O	I2S serial clock output	82	AVCC	–	Analog power supply (3.3V)
33	HSYNC	O	Horizontal sync. control signal output	83	RXC-	I	TMDS data input
34	VSYNC	O	Vertical sync. control signal output	84	RXC+	I	TMDS data input
35	DE	O	Data enable	85	AGND	–	Analog ground
36	Q23	O	24-bit output pixel data bus	86	RX0-	I	TMDS data input
37	Q22	O	24-bit output pixel data bus	87	RX0+	I	TMDS data input
38	Q21	O	24-bit output pixel data bus	88	AGND	–	Analog ground
39	Q20	O	24-bit output pixel data bus	89	AVCC	–	Analog power supply (3.3V)
40	VCC	–	Digital power supply (3.3V)	90	AGND	–	Analog ground
41	GND	–	Digital ground	91	RX1-	I	TMDS data input
42	Q19	O	24-bit output pixel data bus	92	RX1+	I	TMDS data input
43	Q18	O	24-bit output pixel data bus	93	AVCC	–	Analog power supply (3.3V)
44	Q17	O	24-bit output pixel data bus	94	AGND	–	Analog ground
45	OGND	–	Output bus ground	95	AVCC	–	Analog power supply (3.3V)
46	ODCK	O	Data clock output	96	RX2-	I	TMDS data input
47	OVCC	–	Output bus power supply (3.3V)	97	RX2+	I	TMDS data input
48	Q16	O	24-bit output pixel data bus	98	AGND	–	Analog ground
49	Q15	O	24-bit output pixel data bus	99	GND	–	Digital ground
50	Q14	O	24-bit output pixel data bus	100	VCC	–	Digital power supply (3.3V)

■ HY57V643220CT-7 (MR MAIN BOARD ASSY : IC7001, IC7002) (or K4S643232H-TC60-K)

- Synchronous DRAM

● Block Diagram


Self Reflesh Logic & Timer
Reflesh Counter
CLK 68
CKE 67
CS 20
RAS 19
CAS 18
WE 17
DQM0 16
DQM1 71
DQM2 28
DQM3 29
State Machine
Row Active
Row Pre Decoder
Column Active
Column Pre Decoder
Column Add Counter
Bank Select
X Decoder
512 k × 32 Bank 3
512 k × 32 Bank 2
512 k × 32 Bank 1
512 k × 32 Bank 0
Memory Cell Array
Y Decoder
Sense AMP & I/O Gate
I/O Buffer & Logic
A0 25
A1 26
A2 27
A3 60
A4 61
A5 62
A6 63
A7 64
A8 65
A9 66
A10 24
BA0 22
BA1 23
Address Buffer
Address Register
Burst Counter
Mode Register
CAS Latency
Data Out Control
Pipe Line Control
2 DQ0
4 DQ1
5 DQ2
7 DQ3
8 DQ4
10 DQ5
11 DQ6
13 DQ7
74 DQ8
76 DQ9
77 DQ10
79 DQ11
80 DQ12
82 DQ13
83 DQ14
85 DQ15
31 DQ16
33 DQ17
34 DQ18
36 DQ19
37 DQ20
39 DQ21
40 DQ22
42 DQ23
45 DQ24
47 DQ25
48 DQ26
50 DQ27
51 DQ28
53 DQ29
54 DQ30
56 DQ31

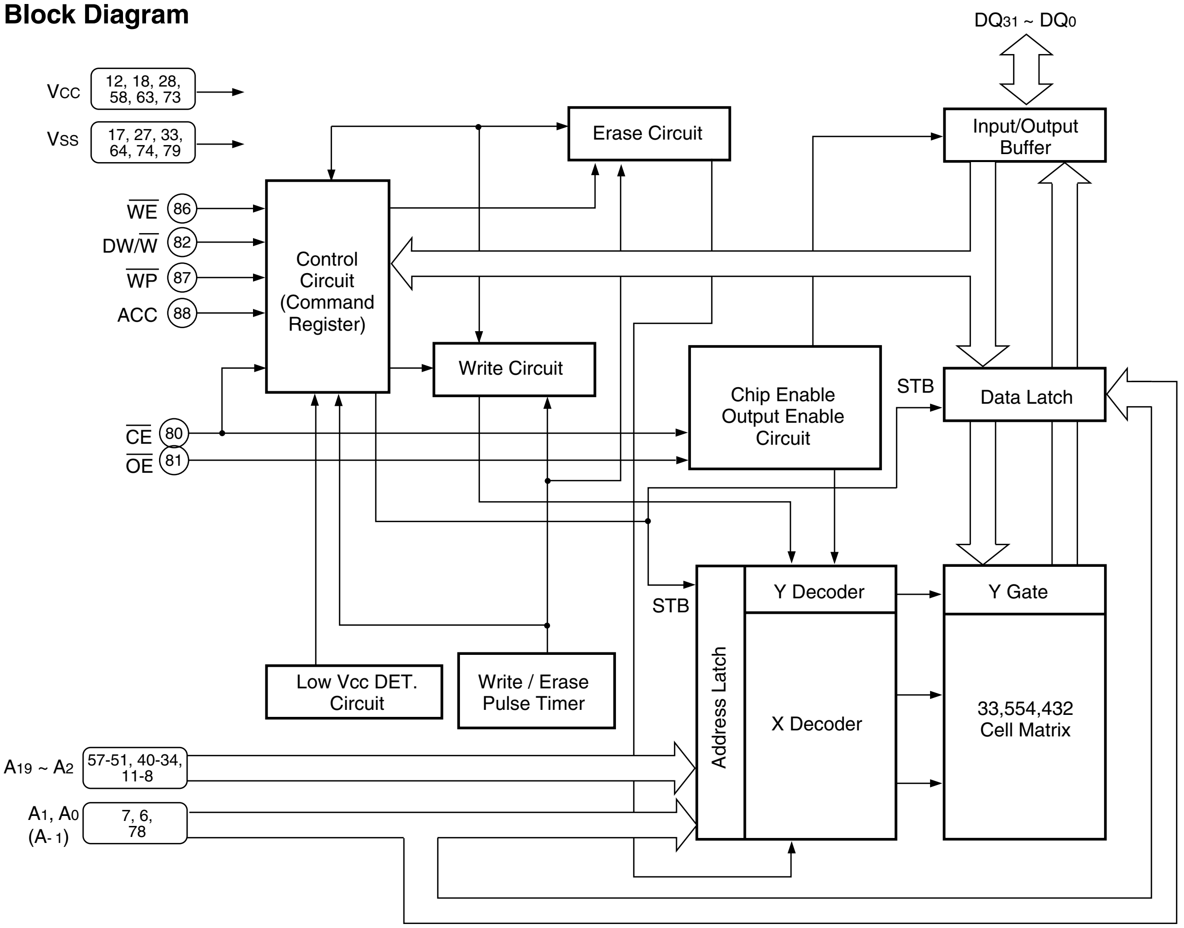
● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	VDD	–	Power supply	44	VSS	–	Ground
2	DQ0	I/O	Data input/output	45	DQ24	I/O	Data input/output
3	VDDQ	–	Power supply for output buffer	46	VSSQ	–	Ground for output buffer
4	DQ1	I/O	Data input/output	47	DQ25	I/O	Data input/output
5	DQ2	I/O	Data input/output	48	DQ26	I/O	Data input/output
6	VSSQ	–	Ground for output buffer	49	VDDQ	–	Power supply for output buffer
7	DQ3	I/O	Data input/output	50	DQ27	I/O	Data input/output
8	DQ4	I/O	Data input/output	51	DQ28	I/O	Data input/output
9	VDDQ	–	Power supply for output buffer	52	VSSQ	–	Ground for output buffer
10	DQ5	I/O	Data input/output	53	DQ29	I/O	Data input/output
11	DQ6	I/O	Data input/output	54	DQ30	I/O	Data input/output
12	VSSQ	–	Ground for output buffer	55	VDDQ	–	Power supply for output buffer
13	DQ7	I/O	Data input/output	56	DQ31	I/O	Data input/output
14	NC	–	No connection	57	NC	–	No connection
15	VDD	–	Power supply	58	VSS	–	Ground
16	DQM0	I	Data input/output mask	59	DQM3	I	Data input/output mask
17	/WE	I	Write enable	60	A3	I	Address input
18	/CAS	I	Column address strobe	61	A4	I	Address input
19	/RAS	I	Row address strobe	62	A5	I	Address input
20	/CS	I	Chip select input	63	A6	I	Address input
21	NC	–	No connection	64	A7	I	Address input
22	BA0	I	Bank address input	65	A8	I	Address input
23	BA1	I	Bank address input	66	A9	I	Address input
24	A10/AP	I	Address input	67	CKE	I	Clock enable
25	A0	I	Address input	68	CLK	I	System clock input
26	A1	I	Address input	69	NC	–	No connection
27	A2	I	Address input	70	NC	–	No connection
28	DQM2	I	Data input/output mask	71	DQM1	I	Data input/output mask
29	VDD	–	Power supply	72	VSS	–	Ground
30	NC	–	No connection	73	NC	–	No connection
31	DQ16	I/O	Data input/output	74	DQ8	I/O	Data input/output
32	VSSQ	–	Ground for output buffer	75	VDDQ	–	Power supply for output buffer
33	DQ17	I/O	Data input/output	76	DQ9	I/O	Data input/output
34	DQ18	I/O	Data input/output	77	DQ10	I/O	Data input/output
35	VDDQ	–	Power supply for output buffer	78	VSSQ	–	Ground for output buffer
36	DQ19	I/O	Data input/output	79	DQ11	I/O	Data input/output
37	DQ20	I/O	Data input/output	80	DQ12	I/O	Data input/output
38	VSSQ	–	Ground for output buffer	81	VDDQ	–	Power supply for output buffer
39	DQ21	I/O	Data input/output	82	DQ13	I/O	Data input/output
40	DQ22	I/O	Data input/output	83	DQ14	I/O	Data input/output
41	VDDQ	–	Power supply for output buffer	84	VSSQ	–	Ground for output buffer
42	DQ23	I/O	Data input/output	85	DQ15	I/O	Data input/output
43	VDD	–	Power supply	86	VSS	–	Ground

■ MBM29PL3200BE70PFV (MR MAIN BOARD ASSY : IC7151, IC7152)

- Page Mode Flash Memory

● Block Diagram


DQ31 ~ DQ0
Vcc
12, 18, 28, 58, 63, 73
Vss
17, 27, 33, 64, 74, 79
WE 86
DW/W 82
WP 87
ACC 88
CE 80
OE 81
Control Circuit (Command Register)
Erase Circuit
Input/Output Buffer
Write Circuit
Chip Enable Output Enable Circuit
STB
Data Latch
STB
Address Latch
Y Decoder
X Decoder
Y Gate
33,554,432 Cell Matrix
Low Vcc DET. Circuit
Write / Erase Pulse Timer
A19 ~ A2
57-51, 40-34, 11-8
A1, A0 (A-1)
7, 6, 78

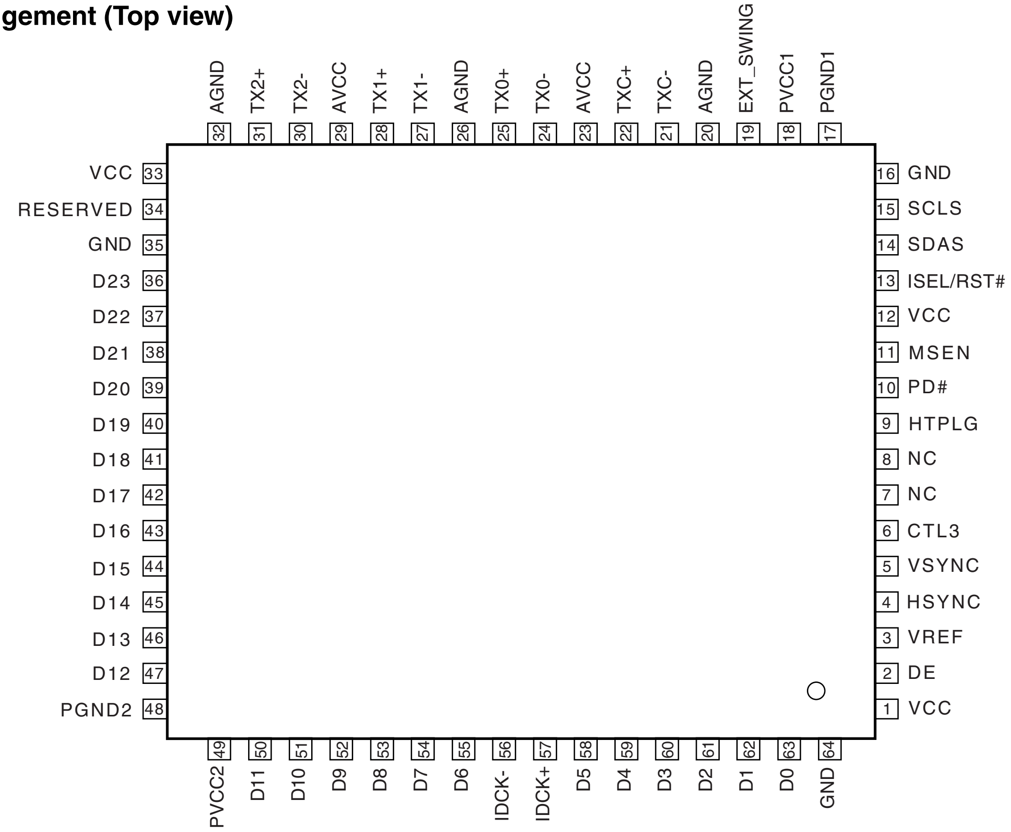
● Pin Function

No.	Pin Name	I/O	Pin Function
57-51, 40-34, 11-6, 78	A_{19} - A_0, A_{-1}	I	Address input
78-75, 72-65, 62-59, 32-19, 26-19, 16-13	DQ_{31} - DQ_0	I/O	Data input/output
80	CE	I	Chip enable
81	OE	I	Output enable
86	WE	I	Write enable
82	DW/W	I	16 bit, 32 bit mode switch
87	WP	I	Write protect
88	ACC	I	Acceleration
17, 27, 33, 64, 74, 79	Vss	–	Ground
12, 18, 28, 58, 63, 73	Vcc	–	Power supply
1-5, 41-50, 83-85, 89, 90	N.C.	–	No connection

■ SII170BCLG64 (MR MAIN BOARD ASSY : IC7401)

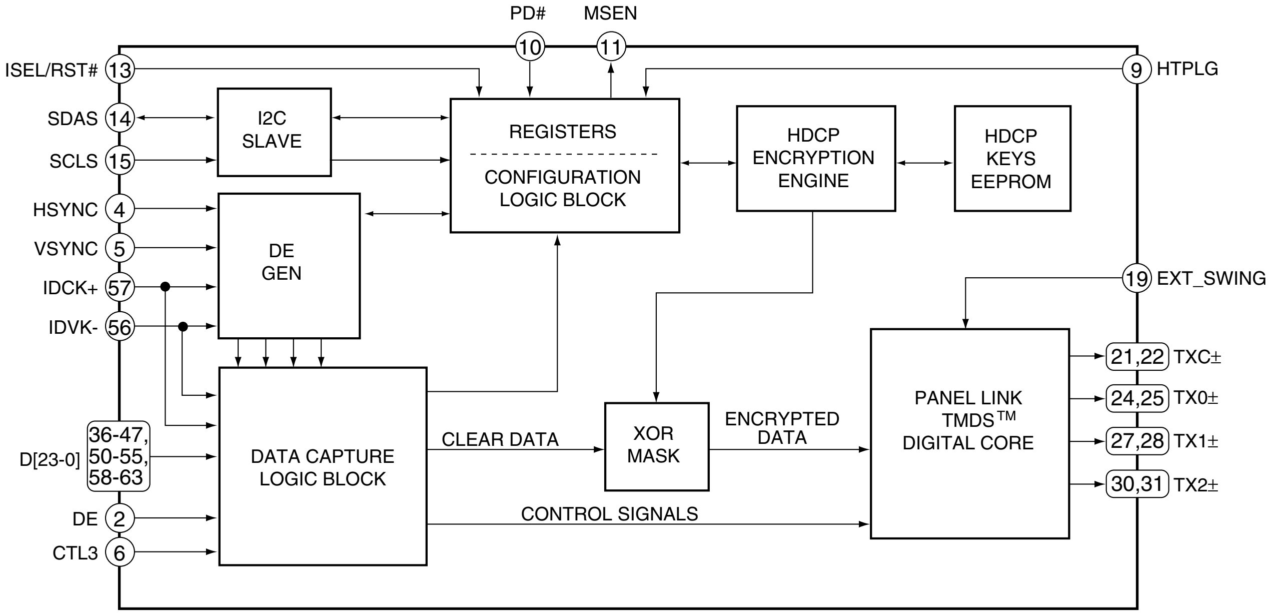
- HDCP Panel Link Transmitter

● Pin Arrangement (Top view)



32 AGND
31 TX2+
30 TX2-
29 AVCC
28 TX1+
27 TX1-
26 AGND
25 TX0+
24 TX0-
23 AVCC
22 TXC+
21 TXC-
20 AGND
19 EXT_SWING
18 PVCC1
17 PGND1
VCC 33
RESERVED 34
GND 35
D23 36
D22 37
D21 38
D20 39
D19 40
D18 41
D17 42
D16 43
D15 44
D14 45
D13 46
D12 47
PGND2 48
16 GND
15 SCLS
14 SDAS
13 ISEL/RST#
12 VCC
11 MSEN
10 PD#
9 HTPLG
8 NC
7 NC
6 CTL3
5 VSYNC
4 HSYNC
3 VREF
2 DE
1 VCC
49 PVCC2
50 D11
51 D10
52 D9
53 D8
54 D7
55 D6
56 IDCK-
57 IDCK+
58 D5
59 D4
60 D3
61 D2
62 D1
63 D0
64 GND

● Block Diagram



PD#
MSEN
10
11
ISEL/RST# 13
9 HTPLG
SDAS 14
SCLS 15
I2C SLAVE
REGISTERS
CONFIGURATION LOGIC BLOCK
HDCP ENCRYPTION ENGINE
HDCP KEYS EEPROM
HSYNC 4
VSYNC 5
IDCK+ 57
IDVK- 56
DE GEN
19 EXT_SWING
D[23-0] 36-47, 50-55, 58-63
DATA CAPTURE LOGIC BLOCK
CLEAR DATA
XOR MASK
ENCRYPTED DATA
PANEL LINK TMDS™ DIGITAL CORE
CONTROL SIGNALS
DE 2
CTL3 6
21,22 TXC±
24,25 TX0±
27,28 TX1±
30,31 TX2±

Pin Function

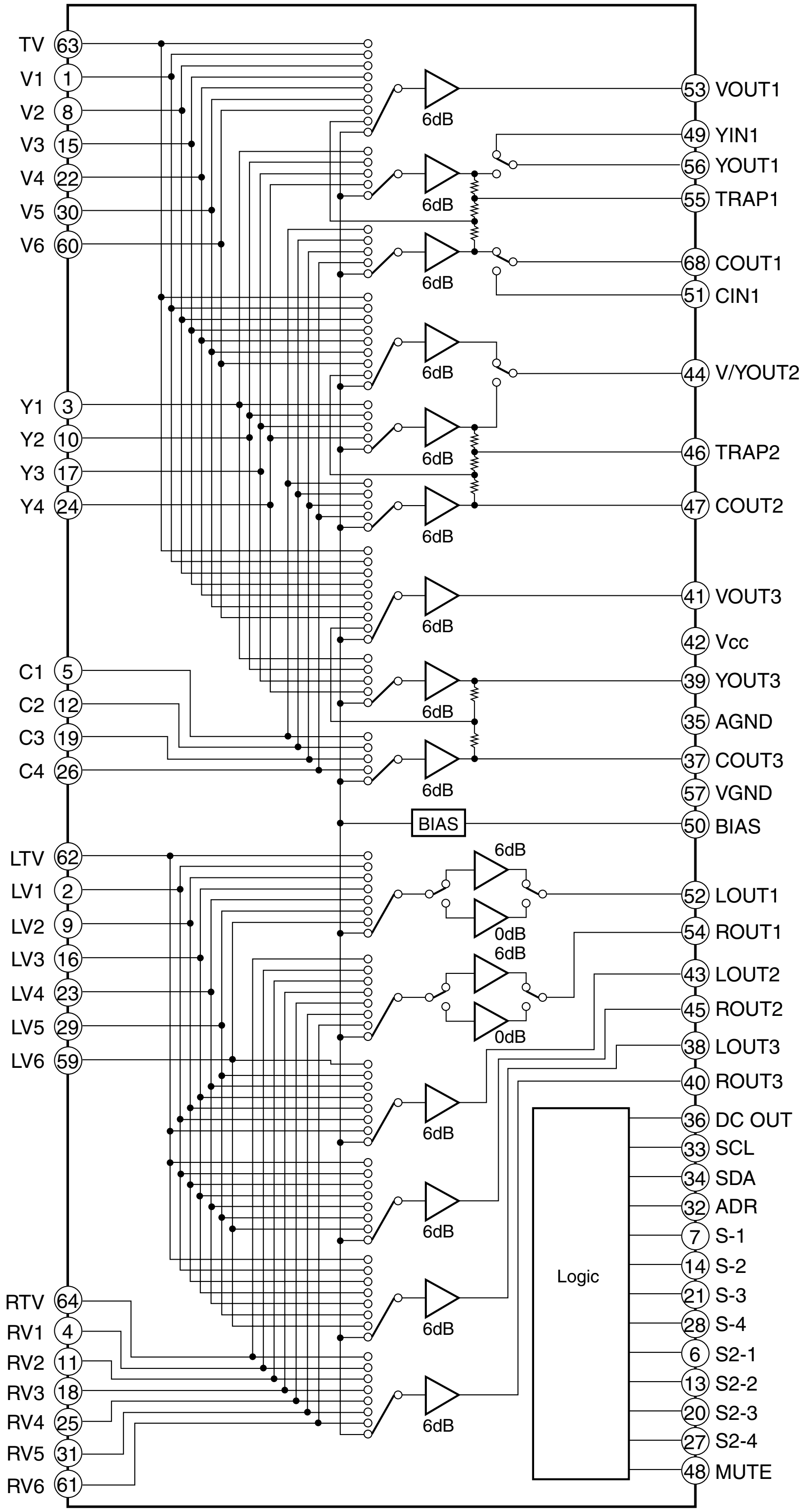
No.	Pin Name	I/O	Pin Function
1	VCC	–	Digital power supply (3.3V)
2	DE	I	Data enable
3	VREF	I	3.3V fixed
4	HSYNC	I	Horizontal sync. control signal input
5	VSYNC	I	Vertical sync. control signal input
6	CTL3	I	External CTL3 input
7	NC	–	No connection
8	NC	–	No connection
9	HTPLG	I	Monitor chrage input
10	PD#	I	Power down input (Active low)
11	MSEN	O	Monitor sense output (open-collector output)
12	VCC	–	Digital power supply (3.3V)
13	ISEL/RST#	I	I2C interface selecting input High: I2C interface is active
14	SDAS	I/O	DDC I2C data input/output
15	SCLS	I	DDC I2C clock input
16	GND	–	Digital ground
17	PGND1	–	PLL analog ground
18	PVCC1	–	Analog power supply for PLL of primary side (3.3V)
19	EXT_SWING	I	Voltage regulation adjustment
20	AGND	–	Analog ground
21	TXC-	O	Differential signal clock output of TMDS Low voltage
22	TXC+	O	Differential signal clock output of TMDS Low voltage
23	AVCC	–	Analog power supply (3.3V)
24	TX0-	O	Differential signal clock output of TMDS Low voltage
25	TX0+	O	Differential signal clock output of TMDS Low voltage
26	AGND	–	Analog ground
27	TX1-	O	Differential signal clock output of TMDS Low voltage
28	TX1+	O	Differential signal clock output of TMDS Low voltage
29	AVCC	–	Analog power supply (3.3V)
30	TX2-	O	Differential signal clock output of TMDS Low voltage
31	TX2+	O	Differential signal clock output of TMDS Low voltage
32	AGND	–	Analog ground
33	VCC	–	Digital power supply (3.3V)
34	RESERVED	I	Reserved pin for Silicon Image Normally, fixed to low.
35	GND	–	Digital ground
36	D23	I	24-bit pixel bus input
37	D22	I	24-bit pixel bus input
38	D21	I	24-bit pixel bus input
39	D20	I	24-bit pixel bus input
40	D19	I	24-bit pixel bus input
41	D18	I	24-bit pixel bus input
42	D17	I	24-bit pixel bus input
43	D16	I	24-bit pixel bus input
44	D15	I	24-bit pixel bus input
45	D14	I	24-bit pixel bus input

No.	Pin Name	I/O	Pin Function
46	D13	I	24-bit pixel bus input
47	D12	I	24-bit pixel bus input
48	PGND2	–	PLL analog ground
49	PVCC2	–	Analog power supply for filter PLL (3.3V)
50	D11	I	24-bit / 12-bit pixel bus input
51	D10	I	24-bit / 12-bit pixel bus input
52	D9	I	24-bit / 12-bit pixel bus input
53	D8	I	24-bit / 12-bit pixel bus input
54	D7	I	24-bit / 12-bit pixel bus input
55	D6	I	24-bit / 12-bit pixel bus input
56	IDCK-	I	Data clock - input
57	IDCK+	I	Data clock + input
58	D5	I	24-bit / 12-bit pixel bus input
59	D4	I	24-bit / 12-bit pixel bus input
60	D3	I	24-bit / 12-bit pixel bus input
61	D2	I	24-bit / 12-bit pixel bus input
62	D1	I	24-bit / 12-bit pixel bus input
63	D0	I	24-bit / 12-bit pixel bus input
64	GND	–	Digital ground

■ CXA2069Q (AV BOARD ASSY : IC8002)

- 7-Input 3-Output Audio/Video Switch

● Block Diagram



TV 63
V1 1
V2 8
V3 15
V4 22
V5 30
V6 60
Y1 3
Y2 10
Y3 17
Y4 24
C1 5
C2 12
C3 19
C4 26
LTV 62
LV1 2
LV2 9
LV3 16
LV4 23
LV5 29
LV6 59
RTV 64
RV1 4
RV2 11
RV3 18
RV4 25
RV5 31
RV6 61
53 VOUT1
49 YIN1
56 YOUT1
55 TRAP1
68 COUT1
51 CIN1
44 V/YOUT2
46 TRAP2
47 COUT2
41 VOUT3
42 Vcc
39 YOUT3
35 AGND
37 COUT3
57 VGND
50 BIAS
52 LOUT1
54 ROUT1
43 LOUT2
45 ROUT2
38 LOUT3
40 ROUT3
36 DC OUT
33 SCL
34 SDA
32 ADR
7 S-1
14 S-2
21 S-3
28 S-4
6 S2-1
13 S2-2
20 S2-3
27 S2-4
48 MUTE
6dB
0dB
BIAS
Logic

● Pin Function

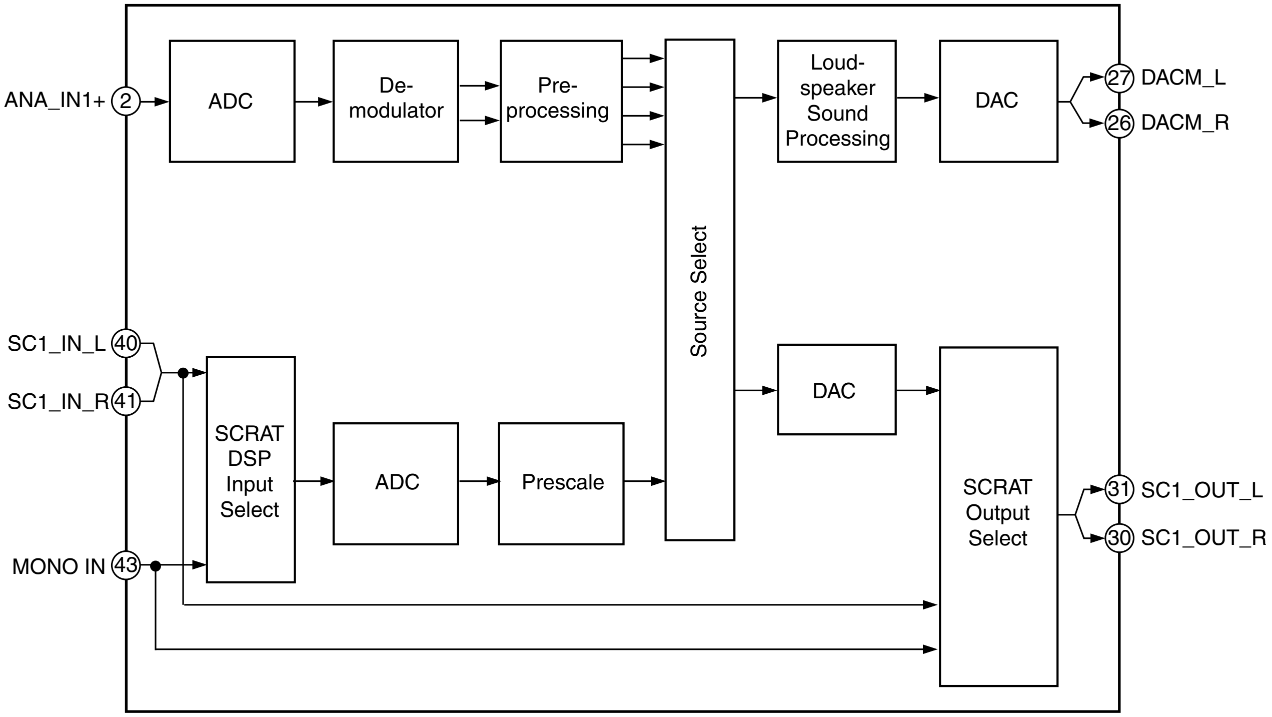
No.	Pin Name	I/O	Pin Function
63 1 8 15 22 30 60	TV V1 V2 V3 V4 V5 V6	I	Video signal inputs. Input composite video signals.
3 10 17 24 49	Y1 Y2 Y3 Y4 YIN1	I	Y/C separation signal inputs. Input luminance signals. The YIN1 pin inputs the signal obtained by Y/C separating the VOUT1 pin output.
5 12 19 26 51	C1 C2 C3 C4 CIN1	I	Y/C separation signal inputs. Input chrominance signals. The CIN1 pin inputs the signal obtained by Y/C separating the VOUT1 pin output.
62, 2 9, 16 23, 29 59, 64 4, 11 18, 25 31, 61	LTV, LV1 LV2, LV3 LV4, LV5 LV6, RTV RV1, RV2 RV3, RV4 RV5, RV6	I	Audio signal inputs.
53 41	VOUT1 VOUT3	O	Video signal outputs. Output composite video signals.
44	V/YOUT2	O	Video signal output. Either composite video signal output or luminance signal output can be selected by I2C bus control.
56	YOUT1	O	Video signal outputs. Output luminance signals.
39	YOUT3		
58 47 37	COUT1 COUT2 COUT3	O	Video signal outputs. Output chrominance signals.
52 43 38 54 45 40	LOUT1 LOUT2 LOUT3 ROUT1 ROUT2 ROUT3	O	Audio signal outputs. Zo=50 ohm (within DC ± 2mA)
6 13 20 27	S2-1 S2-2 S2-3 S2-4	–	Detects the S2-compatible DC superimposed onto the C signal. 4 : 3 video signal at 1.3 V or less 4 : 3 letter-box signal at 1.3 V or more to 2.5 V or less 16 : 9 picture squeezed signal at 2.5 V or more This pin is pulled down to GND by a 100 k ohm resistor, so the 4 : 3 video signal is selected when open.

No.	Pin Name	I/O	Pin Function
7 14 21 28	S-1 S-2 S-3 S-4	–	Composite video/S selector. The detection results are written to the status register. S signal at 3.5 V or less. Composite video signal at 3.5 V or more. This pin is pulled up to 5 V by a 100 k ohm resistor, so the composite video signal is selected when open.
32	ADR	–	Selects the slave address for the I2C bus. 90H at 1.5 V or less 92H at 2.5 V or more 90H when open.
33	SCL	I	I2C bus signal input VILmax=1.5 V VIHmin=3.0 V
34	SDA	I	I2C bus signal input VILmax=1.5 V VIHmin=3.0 V VOLmax=0.4 V
36	DC_OUT	O	Outputs the S2-compatible DC superimposed onto the COUT3 output. The DC is superimposed by connecting this pin to the COUT3 output via a capacitor. Control is performed by the I2C bus. When 0 V is output, Q1 is ON and the impedance is 5 k ohm. S2 protocol output impedance of 10 ± 3 k ohm is realized by attaching external resistance of 4.7 k ohm. DC_OUT (bus) Output DC 0 4.5 V 1 0 V 2 1.9 V 3 4.5 V
55 46	TRAP1 TRAP2	–	Connects trap circuit for subcarrier.
48	MUTE	–	Audio signal output mute. Mute OFF at 1.5 V or less Mute ON at 2.5 V or more Mute OFF when open.
50	BIAS	–	Internal reference bias (VCC/2). Connect to GND via a capacitor.

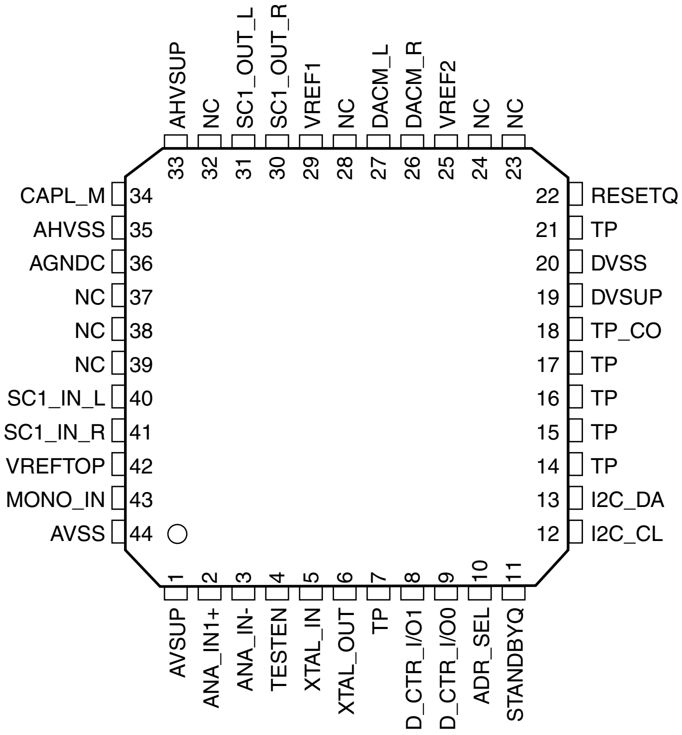
■ MSP3417G (AV BOARD ASSY : IC7502)

- Multisound Processor

● Block Diagram


ANA_IN1+
2
ADC
De-modulator
Pre-processing
Source Select
Loud-speaker Sound Processing
DAC
27 DACM_L
26 DACM_R
SC1_IN_L 40
SC1_IN_R 41
SCRAT DSP Input Select
ADC
Prescale
DAC
SCRAT Output Select
31 SC1_OUT_L
30 SC1_OUT_R
MONO IN 43

● Pin Arrangement (Top view)


33 AHVSUP
32 NC
31 SC1_OUT_L
30 SC1_OUT_R
29 VREF1
28 NC
27 DACM_L
26 DACM_R
25 VREF2
24 NC
23 NC
CAPL_M 34
AHVSS 35
AGNDC 36
NC 37
NC 38
NC 39
SC1_IN_L 40
SC1_IN_R 41
VREFTOP 42
MONO_IN 43
AVSS 44
22 RESETQ
21 TP
20 DVSS
19 DVSUP
18 TP_CO
17 TP
16 TP
15 TP
14 TP
13 I2C_DA
12 I2C_CL
1 AVSUP
2 ANA_IN1+
3 ANA_IN-
4 TESTEN
5 XTAL_IN
6 XTAL_OUT
7 TP
8 D_CTR_I/O1
9 D_CTR_I/O0
10 ADR_SEL
11 STANDBYQ

Pin Function

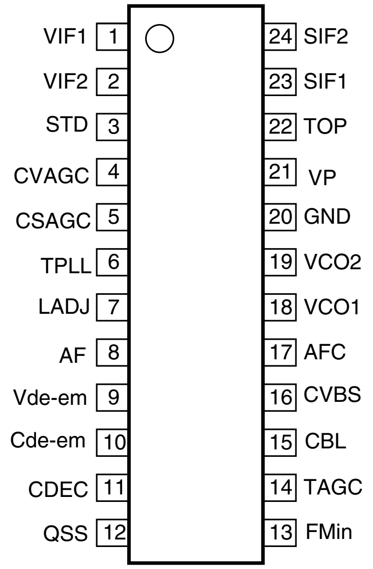
NC = Not connected; leave vacant
LV = if not used, leave vacant
DVSS: if not used, connect to DVSS
X = obligatory; connect as described in circuit diagram
AHVSS: connect to AHVSS

No.	Pin Name	Type	Connection (it not used)	Descriptiom
1	AVSUP		X	Analog power supply +5V
2	ANA_IN1+	IN	LV	IF input1
3	ANA_IN-	IN	LV	IF common
4	TESTEN	IN	X	Test pin
5	XTAL_IN	IN	X	Crystal oscillator
6	XTAL_OUT	OUT	X	Crystal oscillator
7	TP		LV	Test pin
8	D_CTR_I/O_1	IN/OUT	LV	D_CTR_I/O_1
9	D_CTR_I/O_0	IN/OUT	LV	D_CTR_I/O_0
10	ADR_SEL	IN	X	I2C Bus address select
11	STANDBYQ	IN	X	Standby (low-active)
12	I2C_CL	IN/OUT	X	I2C clock
13	I2C_DA	IN/OUT	X	I2C data
14	TP		LV	Test pin
15	TP		LV	Test pin
16	TP		LV	Test pin
17	TP		LV	Test pin
18	TP_CO	OUT	LV	Test pin
19	DVSUP		X	Digital power supply +5V
20	DVSS		X	Digital ground
21	TP		LV	Test pin
22	RESETQ	IN	X	Power-on-reset
23	NC		LV	Not connected
24	NC		LV	Not connected
25	VREF2		X	Reference ground 2 high-voltage part
26	DACM_R	OUT	LV	Loudspeaker out, right
27	DACM_L	OUT	LV	Loudspeaker out, left
28	NC		LV	Not connected
29	VREF1		X	Reference ground 1 high-voltage part
30	SC1_OUT_R	OUT	LV	SCRAT 1 output, right
31	SC1_OUT_L	OUT	LV	SCRAT 1 output, left
32	NC		LV	Not connected
33	AHVSUP		X	Analog power supply + 8.0 V
34	CAPL_M		X	Volume capacitor MAIN
35	AHVSS		X	Analog ground
36	AGNDC		X	Analog reference voltage high-voltage part
37	NC		LV	Not connected
38	NC		LV	Not connected
39	NC		LV	Not connected
40	SC1_IN_L	IN	LV	SCRAT 1 input, left
41	SC1_IN_R	IN	LV	SCRAT 1 input, right
42	VREFTOP		X	Reference voltage IF A/D converter
43	MONO_IN	IN	LV	Mono input
44	AVSS		X	Analog ground

■ TDA9818TS (AV BOARD ASSY : IC7501)

- Single/multistandard VIF/SIF-PLL and FM-PLL/AM Demodulators

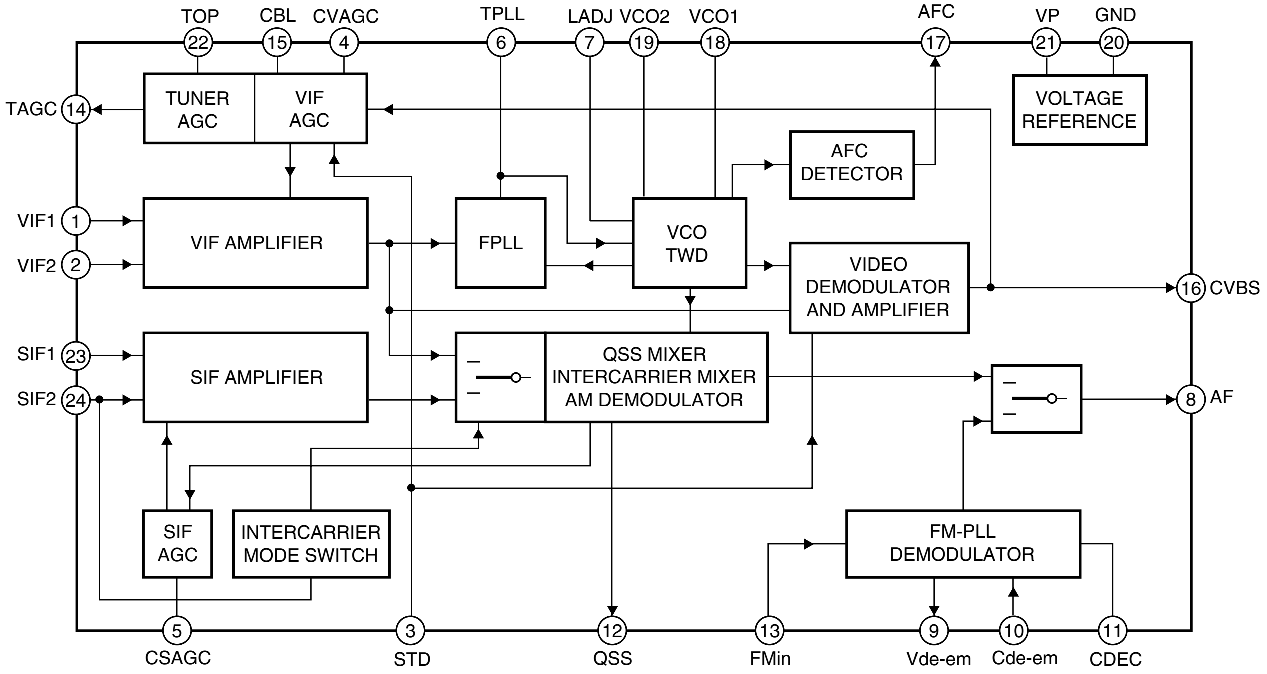
● Pin Arrangement (Top view)


VIF1 1
VIF2 2
STD 3
CVAGC 4
CSAGC 5
TPLL 6
LADJ 7
AF 8
Vde-em 9
Cde-em 10
CDEC 11
QSS 12
24 SIF2
23 SIF1
22 TOP
21 VP
20 GND
19 VCO2
18 VCO1
17 AFC
16 CVBS
15 CBL
14 TAGC
13 FMin

● Pin Function

No.	Pin Name	Pin Function
1	VIF1	VIF differential input signal voltage 1
2	VIF2	VIF differential input signal voltage 2
3	STD	Standard selection switch
4	CVAGC	VIF AGC capacitor
5	CSAGC	SIF AGC capacitor
6	TPLL	PLL filter
7	LADJ	L/L accent switch and adjust
8	AF	Audio output
9	Vde-em	De-emphasis output
10	Cde-em	De-emphasis input
11	CDEC	Decoupling capacitor
12	QSS	Single reference QSS/intercarrier output voltage
13	FMin	Sound intercarrier input voltage
14	TAGC	Tuner AGC output
15	CBL	Black level detector
16	CVBS	Composite video output voltage
17	AFC	AFC output
18	VCO1	VCO1 resonance circuit
19	VCO2	VCO2 resonance circuit
20	GND	Ground
21	VP	Supply voltage
22	TOP	Tuner AGC takeover point adjust
23	SIF1	SIF differential input signal voltage 1
24	SIF2	SIF differential input signal voltage 2

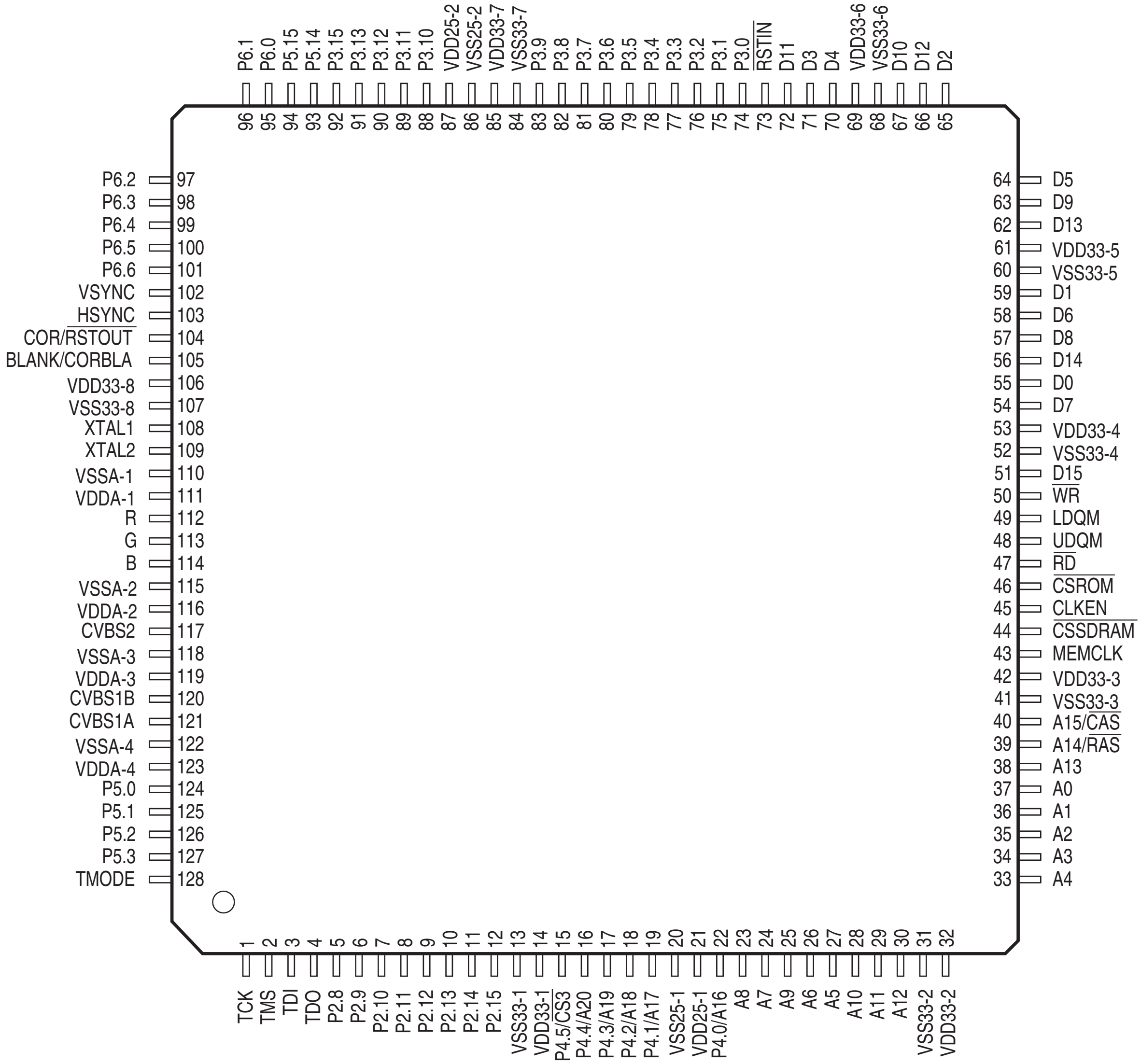
● Block Diagram


TOP 22
CBL 15
CVAGC 4
TPLL 6
LADJ 7
VCO2 19
VCO1 18
AFC 17
VP 21
GND 20
TAGC 14
TUNER AGC
VIF AGC
VOLTAGE REFERENCE
AFC DETECTOR
VIF1 1
VIF2 2
VIF AMPLIFIER
FPLL
VCO TWD
VIDEO DEMODULATOR AND AMPLIFIER
16 CVBS
SIF1 23
SIF2 24
SIF AMPLIFIER
QSS MIXER INTERCARRIER MIXER AM DEMODULATOR
8 AF
SIF AGC
INTERCARRIER MODE SWITCH
FM-PLL DEMODULATOR
5 CSAGC
3 STD
12 QSS
13 FMin
9 Vde-em
10 Cde-em
11 CDEC

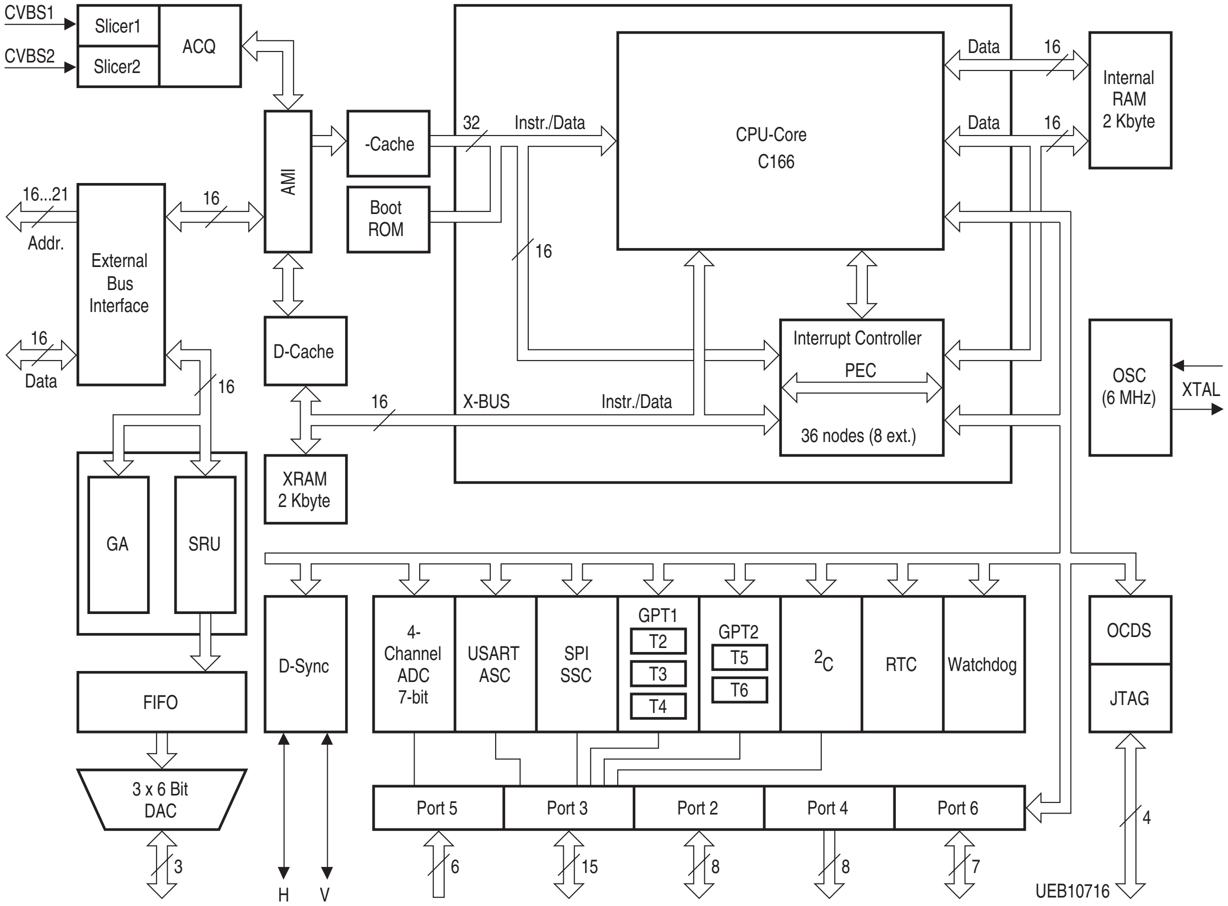
■ SDA6000 (AV BOARD ASSY : IC8904)

- Teletext Decoder

● Pin Arrangement (Top view)


P6.1 96
P6.0 95
P5.15 94
P5.14 93
P3.15 92
P3.13 91
P3.12 90
P3.11 89
P3.10 88
VDD25-2 87
VSS25-2 86
VDD33-7 85
VSS33-7 84
P3.9 83
P3.8 82
P3.7 81
P3.6 80
P3.5 79
P3.4 78
P3.3 77
P3.2 76
P3.1 75
P3.0 74
RSTIN 73
D11 72
D3 71
D4 70
VDD33-6 69
VSS33-6 68
D10 67
D12 66
D2 65
P6.2 97
P6.3 98
P6.4 99
P6.5 100
P6.6 101
VSYNC 102
HSYNC 103
COR/RSTOUT 104
BLANK/CORBLA 105
VDD33-8 106
VSS33-8 107
XTAL1 108
XTAL2 109
VSSA-1 110
VDDA-1 111
R 112
G 113
B 114
VSSA-2 115
VDDA-2 116
CVBS2 117
VSSA-3 118
VDDA-3 119
CVBS1B 120
CVBS1A 121
VSSA-4 122
VDDA-4 123
P5.0 124
P5.1 125
P5.2 126
P5.3 127
TMODE 128
64 D5
63 D9
62 D13
61 VDD33-5
60 VSS33-5
59 D1
58 D6
57 D8
56 D14
55 D0
54 D7
53 VDD33-4
52 VSS33-4
51 D15
50 WR
49 LDQM
48 UDQM
47 RD
46 CSROM
45 CLKEN
44 CSSDRAM
43 MEMCLK
42 VDD33-3
41 VSS33-3
40 A15/CAS
39 A14/RAS
38 A13
37 A0
36 A1
35 A2
34 A3
33 A4
1 TCK
2 TMS
3 TDI
4 TDO
5 P2.8
6 P2.9
7 P2.10
8 P2.11
9 P2.12
10 P2.13
11 P2.14
12 P2.15
13 VSS33-1
14 VDD33-1
15 P4.5/CS3
16 P4.4/A20
17 P4.3/A19
18 P4.2/A18
19 P4.1/A17
20 VSS25-1
21 VDD25-1
22 P4.0/A16
23 A8
24 A7
25 A9
26 A6
27 A5
28 A10
29 A11
30 A12
31 VSS33-2
32 VDD33-2

● Block Diagram


CVBS1
CVBS2
Slicer1
Slicer2
ACQ
AMI
-Cache
Boot ROM
16...21
Addr.
16
External Bus Interface
16
Data
16
D-Cache
XRAM 2 Kbyte
GA
SRU
FIFO
3 x 6 Bit DAC
3
32
Instr./Data
CPU-Core C166
16
Data
16
Data
16
Internal RAM 2 Kbyte
Interrupt Controller
PEC
36 nodes (8 ext.)
16
X-BUS
Instr./Data
OSC (6 MHz)
XTAL
D-Sync
H
V
4-Channel ADC 7-bit
USART ASC
SPI SSC
GPT1
T2
T3
T4
GPT2
T5
T6
2C
RTC
Watchdog
OCDS
JTAG
Port 5
Port 3
Port 2
Port 4
Port 6
6
15
8
8
7
4
UEB10716

● Pin Function

No.	Pin Name	Second Function	I/O	Pin Function
1	TCK	–	I	Clock for JTAG interface
2	TMS	–	I	Control signal for JTAG interface
3	TDI	–	I	Data input for JTAG interface
4	TDO	–	O	Data output for JTAG interface
5	P2.8	EX0IN	I/O	General purpose I/O port/External interrupt 0
6	P2.9	EX1IN	I/O	General purpose I/O port/External interrupt 1
7	P2.10	EX2IN	I/O	General purpose I/O port/External interrupt 2
8	P2.11	EX3IN	I/O	General purpose I/O port/External interrupt 3
9	P2.12	EX4IN	I/O	General purpose I/O port/External interrupt 4
10	P2.13	EX5IN	I/O	General purpose I/O port/External interrupt 5
11	P2.14	EX6IN	I/O	General purpose I/O port/External interrupt 6
12	P2.15	EX7IN	I/O	General purpose I/O port/External interrupt 7
13	VSS33-1	–	–	Digital ground for pads
14	VDD33-1	–	–	Digital power (for pads) (3.3 V)
15	P4.5	CS3	O	General purpose output port/Chip select signal for second external static memory
16	P4.4	A20	O	General purpose output port/Address bit
17	P4.3	A19	O	General purpose output port/Address bit
18	P4.2	A18	O	General purpose output port/Address bit
19	P4.1	A17	O	General purpose output port/Address bit
20	VSS25-1	–	–	Digital ground (for digital core)
21	VDD25-1	–	–	Digital power (for digital core) (2.5 V)
22	P4.0	A16	O	General purpose output port/Address bit
23	A8	R8	O	Address bit/SDRAM address bit
24	A7	R7/C7	O	Address bit/SDRAM address bit
25	A9	R9	O	Address bit/SDRAM address bit
26	A6	R6/C6	O	Address bit/SDRAM address bit
27	A5	R5/C5	O	Address bit/SDRAM address bit
28	A10	R10	O	Address bit/SDRAM address bit
29	A11	R11	O	Address bit/SDRAM address bit
30	A12	R12	O	Address bit/SDRAM address bit
31	VSS33-2	–	–	Digital ground for pads
32	VDD33-2	–	–	Digital power (for pads) (3.3 V)
33	A4	R4/C4	O	Address bit/SDRAM address bit
34	A3	R3/C3	O	Address bit/SDRAM address bit
35	A2	R2/C2	O	Address bit/SDRAM address bit
36	A1	R1/C1	O	Address bit/SDRAM address bit
37	A0	R0/C0	O	Address bit (All addresses are word addresses)/SDRAM Address bit
38	A13	R13	O	Address bit/SDRAM address bit
39	A14	$\overline{\text{RAS}}$	O	Address bit/Row address strobe for SDRAM access
40	A15	$\overline{\text{CAS}}$	O	Address bit/Column address strobe for SDRAM access
41	VSS33-3	–	–	Digital ground for pads
42	VDD33-3	–	–	Digital power (for pads) (3.3 V)
43	MEMCLK	–	O	Clock for SDRAM
44	$\overline{\text{CSSDRAM}}$	–	O	Chip select signal for SDRAM device
45	CLKEN	–	O	Enable for memory clock
46	$\overline{\text{CSROM}}$	–	O	Chip select signal for ROM device
47	$\overline{\text{RD}}$	–	O	External memory read strobe for ROM. $\overline{\text{RD}}$ is activated for every external instruction or data read access.
48	UDQM	–	O	Write disable for high byte
49	LDQM	–	O	Write disable for low byte
50	$\overline{\text{WR}}$	–	O	Memory write strobe

No.	Pin Name	Second Function	I/O	Pin Function
51	D15	–	I/O	Data bit
52	VSS33-4	–	–	Digital ground for pads
53	VDD33-4	–	–	Digital power (for pads) (3.3 V)
54	D7	–	I/O	Data bit
55	D0	–	I/O	Data bit
56	D14	–	I/O	Data bit
57	D8	–	I/O	Data bit
58	D6	–	I/O	Data bit
59	D1	–	I/O	Data bit
60	VSS33-5	–	–	Digital ground for pads
61	VDD33-5	–	–	Digital power (for pads) (3.3 V)
62	D13	–	I/O	Data bit
63	D9	–	I/O	Data bit
64	D5	–	I/O	Data bit
65	D2	–	I/O	Data bit
66	D12	–	I/O	Data bit
67	D10	–	I/O	Data bit
68	VSS33-6	–	–	Digital ground for pads
69	VDD33-6	–	–	Digital power (for pads) (3.3 V)
70	D4	–	I/O	Data bit
71	D3	–	I/O	Data bit
72	D11	–	I/O	Data bit
73	$\overline{\text{RSTIN}}$	–	I	Reset input pin
74	P3.0	SCL0	I/O	General purpose I/O port/I2C Bus clock line 0
75	P3.1	SDA0	I/O	General purpose I/O port/I2C Bus data line 0
76	P3.2	CAPIN	I/O	General purpose I/O port/GPT2 register CAPREL
77	P3.3	T3OUT	I/O	General purpose I/O port/GPT1 timer T3 toggle
78	P3.4	T3EUD	I/O	General purpose I/O port/GPT1 timer T3 ext. up/down
79	P3.5	T4IN	I/O	General purpose I/O port/GPT1 timer T4 input for count/gate/reload/capture
80	P3.6	T3IN	I/O	General purpose I/O port/GPT1 timer T3 count/gate input
81	P3.7	T2IN	I/O	General purpose I/O port/GPT1 timer T2 input for count/gate/reload/capture
82	P3.8	MRST	I/O	General purpose I/O port/SSC masterreceiver/slave-transmit I/O
83	P3.9	MTSR	I/O	General purpose I/O port/SSC mastertransmit/slave-receiver O/I
84	VSS33-7	–	–	Digital ground for pads
85	VDD33-7	–	–	Digital power (for pads) (3.3 V)
86	VSS25-2	–	–	Digital ground (for digital core)
87	VDD25-2	–	–	Digital power (for digital core) (2.5 V)
88	P3.10	TxD0	I/O	General purpose I/O port/ASC0 clock/data output
89	P3.11	RxD0	I/O	General purpose I/O port/ASC0 data input (asynchronous) or I/O (synchronous).
90	P3.12	–	I/O	General purpose I/O port
91	P3.13	SCLK	I/O	General purpose I/O port/SSC master clock output/slave clock input
92	P3.15	–	I/O	General purpose I/O port
93	P5.14	T4EUD	I/O	General purpose Input port/GPT1 timer T4 ext.up/down ctrl. input
94	P5.15	T2EUD	I/O	General purpose Input port/GPT1 timer T2 ext.up/down ctrl. input
95	P6.0	TRIG_IN	I/O	General purpose I/O port/Trigger input-signal for 'On Chip Debug System' (OCDS)
96	P6.1	TRIG_OUT	I/O	General purpose I/O port/Trigger outputsignal for 'On Chip Debug System' (OCDS)
97	P6.2	FIELD	I/O	General purpose I/O port/Field signal of field detection
98	P6.3	SCL1	I/O	General purpose I/O port/I2C bus clock line 1
99	P6.4	SDA1	I/O	General purpose I/O port/I2C bus data line 1
100	P6.5	–	I/O	General purpose I/O port

No.	Pin Name	Second Function	I/O	Pin Function
101	P6.6	SDA2	I/O	General purpose I/O port/I2C bus data line 2
102	VSYNC	VCS	I/O	Vertical sync In/output/Composite sync output
103	HSYNC	–	I/O	Horizontal sync In/output
104	COR	RSTOUT	O	Output for contrast reduction/Reset output
105	BLANK	CORBLA	O	Fast blanking signal/Three-level signal for contrast reduction + fast blanking
106	VDD33-8	–	–	Digital power (for pads) (3.3 V)
107	VSS33-8	–	–	Digital ground for pads
108	XTAL1	–	I	Input of the oscillator amplifier circuit
109	XTAL2	–	O	Output of the oscillator amplifier circuit
110	VSSA-1	–	–	Analog ground
111	VDDA-1	–	–	Analog power (for PLL and DAC) (2.5 V)
112	R	–	O	Analog output for red channel
113	G	–	O	Analog output for green channel
114	B	–	O	Analog output for blue channel
115	VSSA-2	–	–	Analog ground
116	VDDA-2	–	–	Analog power (for ADCs) (2.5 V)
117	CVBS2	–	I	CVBS signal inputs for WSS data slicing
118	VSSA-3	–	–	Analog ground
119	VDDA-3	–	–	Analog power (for ADCs) (2.5 V)
120	CVBS1B	–	I	Ground for CVBS1A (differential input)
121	CVBS1A	–	I	CVBS signal inputs for full service data slicing
122	VSSA-4	–	–	Analog ground
123	VDDA-4	–	–	Analog power (for ADCs) (2.5 V)
124	P5.0	AN.0	I	General purpose Input port/Analog input for A/D-converter
125	P5.1	AN.1	I	General purpose Input port/Analog input for A/D-converter
126	P5.2	AN.2	I	General purpose Input port/Analog input for A/D-converter
127	P5.3	AN.3	I	General purpose Input port/Analog input for A/D-converter
128	TMODE	–	I	Test mode pin

7.4 CLEANING

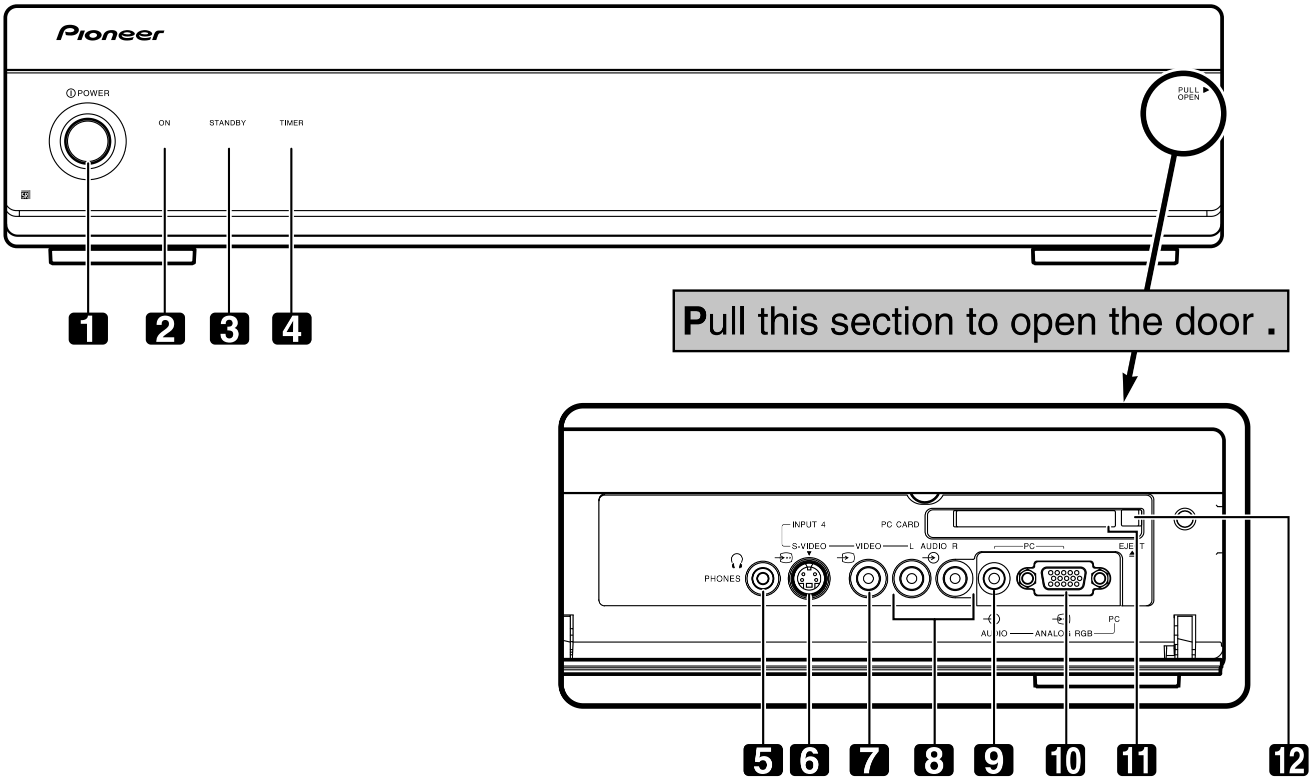
Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

8. PANEL FACILITIES

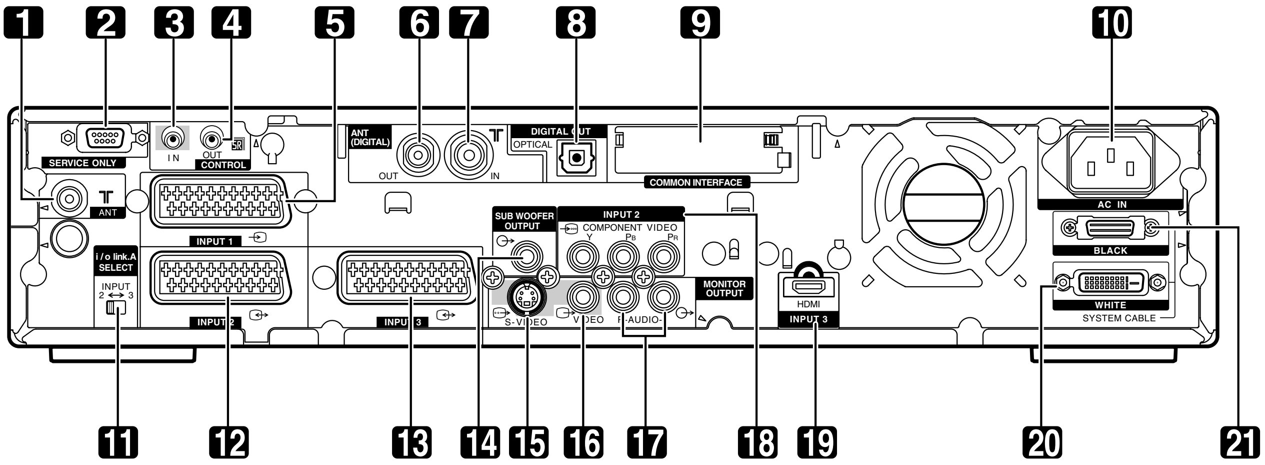
Media Receiver (PDP-505XDE/435XDE)

Front view


Pioneer
POWER
ON
STANDBY
TIMER
PULL OPEN
Pull this section to open the door .
INPUT 4
PC CARD
S-VIDEO
VIDEO
L AUDIO R
PC
EJECT
PHONES
AUDIO
ANALOG RGB
PC
1
2
3
4
5
6
7
8
9
10
11
12

1. **POWER** button
2. POWER ON indicator
3. STANDBY indicator
4. TIMER indicator
   PDP-505XDE/435XDE only
5. PHONES output terminal
   PDP-505XDE/435XDE only
6. INPUT 4 terminal (S-VIDEO)
7. INPUT 4 terminal (VIDEO)
8. INPUT 4 terminals (AUDIO)
9. PC INPUT terminal (AUDIO)
   PDP-505XDE/435XDE only
10. PC INPUT terminal (ANALOG RGB)
    PDP-505XDE/435XDE only
11. PC CARD slot
    PDP-505XDE/435XDE only
12. **PC CARD EJECT** button
    PDP-505XDE/435XDE only

Rear view


1
2
3
4
5
6
7
8
9
10
SERVICE ONLY
IN
OUT
CONTROL
ANT
ANT (DIGITAL)
OUT
IN
DIGITAL OUT
OPTICAL
COMMON INTERFACE
AC IN
INPUT 1
i / o link.A SELECT
INPUT 2 ↔ 3
SUB WOOFER OUTPUT
INPUT 2
COMPONENT VIDEO
Y
PB
PR
MONITOR OUTPUT
BLACK
WHITE
SYSTEM CABLE
HDMI
INPUT 3
INPUT 2
INPUT 3
S-VIDEO
VIDEO
R-AUDIO-L
11
12
13
14
15
16
17
18
19
20
21

1 ANT (Antenna) input terminal

2 RS-232C terminal (used for factory setup)

3 CONTROL IN terminal
PDP-505XDE/435XDE only

4 CONTROL OUT terminal
PDP-505XDE/435XDE only

5 INPUT 1 terminal (SCART)

6 ANT OUT terminal (Antenna through out)
PDP-505XDE/435XDE only

7 ANT IN terminal (Antenna in for DTV)
PDP-505XDE/435XDE only
- Power can be supplied through this terminal.

8 DIGITAL OUT terminal (OPTICAL)
PDP-505XDE/435XDE only

9 COMMON INTERFACE slot
PDP-505XDE/435XDE only
- For a CA Module with a smart card

10 AC IN terminal

11 i/o link.A SELECT switch

12 INPUT 2 terminal (SCART)

13 INPUT 3 terminal (SCART)

14 SUBWOOFER OUTPUT terminal
PDP-505XDE/435XDE only

15 MONITOR OUTPUT terminal (S-VIDEO)

16 MONITOR OUTPUT terminal (VIDEO)

17 MONITOR OUTPUT terminals (AUDIO)

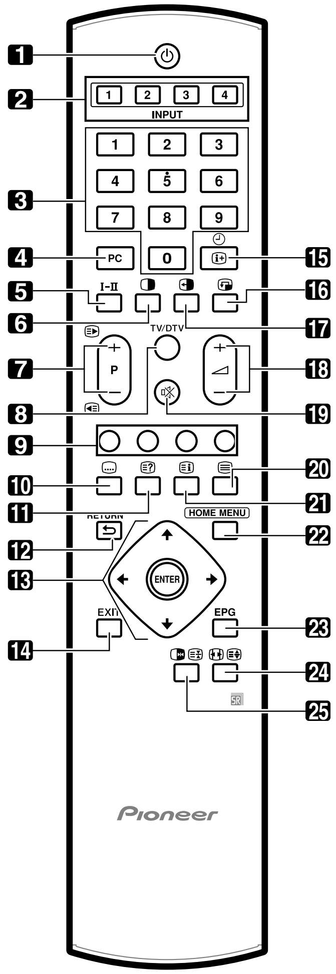
18 INPUT 2 terminals
(COMPONENT VIDEO: Y, PB, PR)

19 INPUT 3 terminal (HDMI)

20 SYSTEM CABLE terminal (WHITE)

21 SYSTEM CABLE terminal (BLACK)

Remote control unit (PDP-505XDE/435XDE)



1 ⏻
Turns on the power to the Plasma Display or places into the standby mode.

2 INPUT
Selects an input source of the Plasma Display. (INPUT 1, INPUT 2, INPUT 3, INPUT 4)

3 0 – 9
TV/External input mode: Selects a channel.
TELETEXT mode: Selects a page.

4 PC
Selects the PC terminal as an input source.

5 I—II
Sets the sound multiplex mode.

6 ◨
Switches the screen mode among 2-screen, picture-in-picture, and single-screen.

7 P+/P–
TV/External input mode: Selects a channel.
≡▶/◀≡
TELETEXT mode: Selects a page.

8 TV/DTV (**PDP-505XDE/435XDE only**)
Switches between the TV and DTV input mode.

9 Colour (RED/GREEN/YELLOW/BLUE)
TELETEXT mode: Selects a page.

10 (....)
TV/External input mode: Jumps to the teletext subtitle page.
DTV input mode: Turns subtitle on and off.

11 ≡?
TELETEXT mode: Displays hidden characters.

12 ⮌ RETURN
Restores the previous menu screen.

13 ↑/↓/←/→
Selects a desired item on the setting screen.

ENTER
Executes a command.

14 EXIT (**PDP-505XDE/435XDE only**)
Returns to the normal screen in one step.

15 i+ ◷
TV/External input mode: Displays the channel information.
DTV input mode: Displays the banner information.

16 ◰
Moves the location of the small screen when in the picture-in-picture mode.

17 ◧
Switches between the two screens when in the 2-screen or picture-in-picture mode.

18 ◿+/◿–
Sets the volume.

19 🔇
Mutes the sound.

20 ≡
Selects the TELETEXT mode.
(all TV image, all TEXT image, TV/TEXT image)

21 ≡i
TELETEXT mode: Displays an Index page for the CEEFAX/FLOF format. Displays a TOP Over View page for the TOP format.

22 HOME MENU
TV/External Input mode: Displays the Menu screen.

23 EPG
Display the Electronic Programme Guide.

24 ⟺
TV/External input mode: Selects the screen size.

≡↕
TELETEXT mode: Switches Teletext images. (full/upperhalf/lower half)

25 ⏸
TV/External input mode: Freezes a frame from a moving image. Press again to cancel the function.

≡⧗
TELETEXT mode: Stops updating Teletext pages. Press again to release the hold mode.

NOTE

- When using the remote control unit, point it at the Plasma Display.